

Alabama State Drought Programs

Program Title: Drought Task Force (ad hoc)

Function: Mitigation, Response, Monitoring and Prediction, Communication

Program Assistance or Functional Assistance: Monitors drought conditions and informs state officials and the public.

Statute or Authority: Executive Branch

Agencies (primary agency listed first): AL Agriculture Department

Customers Served: Localities, general public

Triggering Event or Circumstance-How does this program relate to drought? At the onset of drought

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Charles Bishop, Commissioner of Agriculture
(334) 240-7202

Alaska State Drought Programs

Program Title: State Climatology

Function: Monitoring and Prediction

Program Assistance or Functional Assistance: Monitors climatic conditions and history.

Statute or Authority: N/A

Agencies (primary agency listed first): University of AK, Anchorage

Customers Served: No data

Triggering Event or Circumstance-How does this program relate to drought?
No data

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: Alaska rarely experiences drought other than potable supply issues caused by contamination.

Contact Name and Phone Number: Dr. Dwight Pollard, State Climatologist
(907) 257-2737

Arizona State Drought Programs

Program Title: Groundwater Management Code

Function: Mitigation

Program Assistance or Functional Assistance: Program of groundwater rights and permits; 3 levels of water management; extends to the year 2025.

Statute or Authority: AZ Code, 1980

Agencies (primary agency listed first): AZ Dept. of Water Resources

Customers Served: Localities, general public

Triggering Event or Circumstance-How does this program relate to drought?
Law

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Jim Lavelle, AZ DWR
(602) 417-2408

Arizona State Drought Programs

Program Title: State Drought Planning Process

Function: Mitigation, Response, Monitoring and Prediction, Communication, Planning

Program Assistance or Functional Assistance: Creating a statewide drought multipurpose plan

Statute or Authority: Executive

Agencies (primary agency listed first): AZ Emergency Management, Dept. of Water Resources

Customers Served: Localities, general public

Triggering Event or Circumstance-How does this program relate to drought?

Planning activity to improve response, mitigation, & preparedness

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: Planning process will identify.

Program Limitations: No data

Contact Name and Phone Number: Mike Austin, Director, AEMA,
(602) 231-6245

Arkansas State Drought Programs

Program Title: Drought Task Force (Informal)

Function: Response, Communication, Monitoring and Prediction

Program Assistance or Functional Assistance: Monitors drought conditions and informs state officials and the public.

Statute or Authority: Executive Branch

Agencies (primary agency listed first): No data

Customers Served: Localities, general public

Triggering Event or Circumstance-How does this program relate to drought? At the onset of drought

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Randy Young, Executive Director, AR Soil & Water Conservation Commission, 101 E. Capitol, Little Rock, AR (501) 682-3986

Arkansas State Drought Programs

Program Title: Local Water Supply Planning

Function: Mitigation, Planning

Program Assistance or Functional Assistance: All public water utilities must have a drought contingency plan.

Statute or Authority: No data

Agencies (primary agency listed first): AR Health Department

Customers Served: Localities, general public

Triggering Event or Circumstance-How does this program relate to drought? Ongoing

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: No data

California State Drought Programs

Program Title: Emergency Services

Function: Mitigation, Response, Communication, Monitoring and Prediction, Planning

Program Assistance or Functional Assistance: The Emergency Services Act establishes the Governor's Office of Emergency Services; provides for the evaluation of hazards and preparation of emergency plans to deal with a wide range of disaster events including drought, and provides for emergency powers at the local and state levels to respond to disasters posing threats to life and property. California Office of Emergency Services (OES) monitors situations which may evolve into disaster situations and participates on the state drought task force together with the California Department of Water Resources and other state agencies.

Statute or Authority: CA Gov't code sections 8550-8668

Agencies (primary agency listed first): CA OES administers the state's emergency services program.

Customers Served: CA residents, political subdivisions, qualifying private nonprofit organizations, and the private sector

Triggering Event or Circumstance-How does this program relate to drought? Emergencies which may pose a peril to life and property

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: Unmet needs may be identified best during actual drought conditions due to the nature of drought emergencies, constantly changing legislation, and the status of various drought programs during drought conditions.

Program Limitations: OES funding generally does not provide direct assistance but monitors and coordinates activities of other federal, state, and local agencies to ensure coordinated and balanced response to disasters including drought conditions.

Contact Name and Phone Number: Donald Pinegar, OES Plans Unit
(916) 464-3246

California State Drought Programs

Program Title: Natural Disaster Assistance Act (NDAA)

Function: Response, Recovery

Program Assistance or Functional Assistance: Program is the State's version of the Stafford Act, providing public assistance to local agencies. State may authorize a variety of options based on state needs.

Statute or Authority: CA Gov't code sections 8680-8692

Agencies (primary agency listed first): CA OES administers the program.

Customers Served: California counties, cities and special districts in declared disaster areas

Triggering Event or Circumstance-How does this program relate to drought? Natural disaster emergencies which pose an extreme peril to life and property. Must have a Local Emergency declared with OES Director's concurrence, or a Governor's proclamation of a State of Emergency for program eligibility.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: Does not provide for mitigation actions

Program Limitations: Program funds 75% of eligible work with 25% local cost-share.

Contact Name and Phone Number: Nancy Ward, OES Disaster Assistance Branch
(916) 464-1006

California State Drought Programs

Program Title: Mutual Aid

Function: Response

Program Assistance or Functional Assistance: Provides for the interchange of services and facilities to cope with the problems of rescue, relief, evacuation, rehabilitation and reconstruction which would arise in the event of a disaster.

Statute or Authority: CA Gov't code sections 177 and 8615-8619

Agencies (primary agency listed first): Assistance may be made available by governmental agencies of the State of California and its political subdivisions.

Customers Served: Other signatories of the California Disaster and Civil Defense Master Mutual Aid Agreement and the Interstate Civil Defense and Disaster Compact

Triggering Event or Circumstance-How does this program relate to drought? Emergencies which pose a peril to life and property

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: Available services during a drought might be limited in the affected area.

Program Limitations: Amount of resources available for mutual aid varies depending on emergency conditions throughout the state.

Contact Name and Phone Number: Donald Pinegar, OES Plans Unit
(916) 464-3246

Colorado State Drought Programs

Program Title: Disaster Emergency Fund

Function: Response

Program Assistance or Functional Assistance: Governor can authorize expenditures for response and recovery activities in declared disasters.

Statute or Authority: CS-24-32-2106

Agencies (primary agency listed first): Office of the Governor, OEM, Attorney General's Office

Customers Served: Affected agencies and local governments

Triggering Event or Circumstance-How does this program relate to drought? Declared drought disaster

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: Cannot provide direct assistance to individuals or private businesses due to constitutional limitation

Program Limitations: Fund appropriation

Contact Name and Phone Number: Tom Grier, Director, OEM
(303) 273-1622

Colorado State Drought Programs

Program Title: Emergency Authority

Function: Response

Program Assistance or Functional Assistance: Governor can suspend statutes, rules, and regulations and create law in declared disasters.

Statute or Authority: CS-24-32-2104

Agencies (primary agency listed first): Office of the Governor, OEM, Attorney General's Office

Customers Served: General public, State and local governments

Triggering Event or Circumstance-How does this program relate to drought? Declared drought disaster

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: Actions are good only for 30 days unless reviewed, and are subject to review by General Assembly.

Contact Name and Phone Number: Tom Grier, Director, OEM
(303) 273-1622

Colorado State Drought Programs

Program Title: State Emergency Operations Plan/Drought Response Plan Annex

Function: Response, Monitoring and Prediction, Communication, Planning

Program Assistance or Functional Assistance: When activated by Governor, has the force and effect of law. Covers monitoring and response to drought events and public information.

Statute or Authority: CS-24-32-2105

Agencies (primary agency listed first): OEM, Office of the Governor

Customers Served: General public, State and local governments, private business

Triggering Event or Circumstance-How does this program relate to drought? Plan activation by Governor

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Tom Grier, Director, OEM
(303) 273-1622

Colorado State Drought Programs

Program Title: National Guard

Function: Response

Program Assistance or Functional Assistance: Governor can activate resources of the State National Guard.

Statute or Authority: CS-28-3-104

Agencies (primary agency listed first): Colorado Dept. of Military Affairs, Office of the Governor, OEM

Customers Served: State and local governments

Triggering Event or Circumstance-How does this program relate to drought? Mobilization and deployment approved by Governor

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: Availability and types of resources

Program Limitations: State has to pay for the operational costs related to employment.

Contact Name and Phone Number: Colonel Rafael Nunn-Marin Military Liaison to Civil Authority
(303) 397-3249

Colorado State Drought Programs

Program Title: State Emergency Fire Suppression Fund

Function: Response

Program Assistance or Functional Assistance: Trust fund, managed by State Forest Service, which can be used to offset the cost of fire suppression

Statute or Authority: CS-24-33.5-1207.6

Agencies (primary agency listed first): Colorado State Forest Service, Colorado Sheriffs' Association

Customers Served: Local governments and citizens

Triggering Event or Circumstance-How does this program relate to drought? Wildfire of the size and magnitude warranting activation of the fund

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: Fund balance, not all counties participate in fund.

Contact Name and Phone Number: Steve Hart, Colorado State Forester
(719) 578-5313

Colorado State Drought Programs

Program Title: Natural Hazards Mitigation Council

Function: Mitigation

Program Assistance or Functional Assistance: Council established by Governor's Executive Order, to address the issue of Natural Hazards Mitigation. There is a drought subcommittee of the council.

Statute or Authority: Executive Order dated Feb. 23, 1989 - BO44-89

Agencies (primary agency listed first): Dept. of Natural Resources, OEM

Customers Served: General public, State and local governments, private business

Triggering Event or Circumstance-How does this program relate to drought? Ongoing activity, although actions by the Council are triggered by disaster events.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: Council and its subcommittees can identify projects but have to search for funding sources.

Program Limitations: Unfunded state activity

Contact Name and Phone Number: Ron Cattany, Deputy Director, Dept. of Natural Resources, & Council Chair
(303) 866-3586

Colorado State Drought Programs

Program Title: Fire Bans

Function: Response

Program Assistance or Functional Assistance: Authorization by Governor of bans on open burning in designated areas

Statute or Authority: CS-23-30-308

Agencies (primary agency listed first): Colorado State Forest Service, Colorado Sheriffs' Association, OEM, Governor's Office

Customers Served: General public, State and local governments, Federal land managers

Triggering Event or Circumstance-How does this program relate to drought? Ban is issued by Governor when recommended by wildfire agencies and other first responders.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Steve Hart, Colorado State Forester (719) 578-5313

Colorado State Drought Programs

Program Title: Emergency Preparedness Program

Function: Communication, Response

Program Assistance or Functional Assistance: Provides for the organizational structure through which preparedness and response activities are conducted at the State and local levels of government.

Statute or Authority: CS-24-32- Part 21

Agencies (primary agency listed first): OEM, all State and local government agencies

Customers Served: State and local governments

Triggering Event or Circumstance-How does this program relate to drought? Ongoing activity

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: \$250,000 to \$300,000 drought contingency planning need

Program Limitations: Local governments receive no state funding for EM activities; drought per se is an unfunded activity.

Contact Name and Phone Number: Tom Grier, Director, OEM
(303) 273-1622

Colorado State Drought Programs

Program Title: Water Conservation Program

Function: Communication, Mitigation

Program Assistance or Functional Assistance: Provides voluntary guidelines for use by water utilities and funding for water conservation projects for those who have a plan

Statute or Authority: CS-37-60

Agencies (primary agency listed first): Colorado Water Conservation Board

Customers Served: Local government water utilities

Triggering Event or Circumstance-How does this program relate to drought? Request for technical assistance or project funding

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: All water utilities should have a plan; few do.

Program Limitations: Must have a water conservation plan before project funding can be provided. Limited dollars available; program is voluntary.

Contact Name and Phone Number: Colorado Water Conservation Board
(303) 846-3441

Colorado State Drought Programs

Program Title: Water Utility Project Prioritization - Revolving Loan funding List

Function: Mitigation

Program Assistance or Functional Assistance: Program provides for a review and prioritization of water utility projects based on need and hazard criteria including drought.

Statute or Authority: No data

Agencies (primary agency listed first): Dept. of Local Affairs, Colorado Dept. of Public Health and Environment (303) 866-2352

Customers Served: No data

Triggering Event or Circumstance-How does this program relate to drought? No data

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: No data

Colorado State Drought Programs

Program Title: Wildlife Cash Fund

Function: Response, Mitigation

Program Assistance or Functional Assistance: Can be used to fund both response and mitigation actions affecting wildlife during drought periods.

Statute or Authority: CS-33-1-112

Agencies (primary agency listed first): Division of Wildlife, OEM, Dept. of Natural Resources, Governor's Office

Customers Served: Hunters, fishermen, other recreation users

Triggering Event or Circumstance-How does this program relate to drought? Impacts endangering wildlife

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: Have to seek legislative approval for expenditure of funds

Contact Name and Phone Number: Grady McNeil, Division of Wildlife
(303) 291-7280

Colorado State Drought Programs

Program Title: Construction Project Trust Fund

Function: Mitigation

Program Assistance or Functional Assistance: Funds projects dealing with water resources, instream flows, etc.

Statute or Authority: CS-37-60-121

Agencies (primary agency listed first): Colorado Water Conservation Board, Dept. of Natural Resources, Division of Wildlife

Customers Served: General public, local governments, State agencies

Triggering Event or Circumstance-How does this program relate to drought? Annual projects Request for Proposal

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: Always more projects than funds available

Program Limitations: Projects require legislative approval. Drought is only one of many considerations in project review.

Contact Name and Phone Number: Peter Evans, Director, Colorado Water Conservation Board
(303) 866-3441

Colorado State Drought Programs

Program Title: Climatology

Function: Monitoring and Prediction

Program Assistance or Functional Assistance: Provides funding for the Office of the State Climatologist at CSU who in turn produces climatological information for monitoring droughts, and does drought climatological research.

Statute or Authority: No data

Agencies (primary agency listed first): CSU, OEM, Dept. of Natural Resources

Customers Served: General public, State and local agencies, private businesses, others

Triggering Event or Circumstance-How does this program relate to drought? Ongoing program

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: Funding support

Contact Name and Phone Number: Nolan Doeskin, Assistant State Climatologist, CSU
(970) 491-8545

Colorado State Drought Programs

Program Title: Colorado Agriculture Extension Service Public Information Technical Assistance

Function: Monitoring and Prediction, Communication

Program Assistance or Functional Assistance: Program provides for dissemination in a timely manner to the agriculture community of drought related information and provision of technical assistance to deal with drought impacts.

Statute or Authority: CS-22-34-101

Agencies (primary agency listed first): CSU, OEM, Dept. of Ag., State Soil Conservation Board, others

Customers Served: Agriculture community in Colorado

Triggering Event or Circumstance-How does this program relate to drought? Ongoing program

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: Funding/staffing

Contact Name and Phone Number: Milan Rewerts, Director, Cooperative Extension Service
(970) 491-6281

Colorado State Drought Programs

Program Title: Colorado Water Resource Research Institute. Water-related research, and dissemination of research findings

Function: Monitoring and Prediction, Communication

Program Assistance or Functional Assistance: Program provides for funding of research relating to water resources issues including drought, and for dissemination of research findings as well as of information of a water policy nature.

Statute or Authority: CS-23-35-101

Agencies (primary agency listed first): CSU, OEM, Dept. of Natural Resources

Customers Served: Water resources community; policy makers in State and local governments, federal agencies

Triggering Event or Circumstance-How does this program relate to drought? Ongoing program

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: Need for additional research into drought and its impacts on society

Program Limitations: Funding for drought is one of many things to be looked at in the water resources area.

Contact Name and Phone Number: Robert Ward, Director, Colorado Water Resources Research Institute
(970) 491-6281

Colorado State Drought Programs

Program Title: Water Resources

Function: Monitoring and Prediction

Program Assistance or Functional Assistance: Reservoir, streamflow, and water resources data collection & dissemination. Real time satellite-stream gauge system: river basin simulation models, production of surface water supply index

Statute or Authority: CS-37-80 CS-24-1-124 24-33-104

Agencies (primary agency listed first): Division of Water Resources, Dept. of Natural Resources, Natural Resources Conservation Service, USGS, other State/Federal Agencies

Customers Served: Water resources community

Triggering Event or Circumstance-How does this program relate to drought? Ongoing program

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: Not all river basins have been modeled.

Program Limitations: Staffing-funding limitations

Contact Name and Phone Number: Jack Byers, State Engineers Office, Division of Water Resources
(303) 866-3581

Colorado State Drought Programs

Program Title: Drinking Water Revolving Fund

Function: Mitigation

Program Assistance or Functional Assistance: Loans

Statute or Authority: 37-95-107.8 C.R.S

Agencies (primary agency listed first): Colorado Water Resources and Power Development Authority (grant recipient), Colorado Dept. of Public Health and Environment - Water Quality Control Division, Colorado Dept. of Local Affairs - Division of Local Government

Customers Served: Government agencies (counties, municipalities, special direction)

Triggering Event or Circumstance-How does this program relate to drought? Construction of a project which will help the water system maintain compliance with drinking water standards, or will further the health protection goals of the Safe Drinking Water Act.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: Projects whose main purpose is other than compliance with drinking water standards, or furtherance of the health protection goals of the Safe Drinking Water Act.

Contact Name and Phone Number: Barry Cress, Division of Local Government
(303) 866-2352

Connecticut State Drought Programs

Program Title: General Statutes of Connecticut

Function: Response

Program Assistance or Functional Assistance: Contingency procedures for public drinking water supply emergencies, including emergencies concerning the contamination of water, the failure of a water supply system or the shortage of water

Statute or Authority: General statutes of Connecticut volume 8

Agencies (primary agency listed first): No data

Customers Served: General public

Triggering Event or Circumstance-How does this program relate to drought? No data

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Sid Albertsen
(860) 418-6203

Delaware State Drought Programs

Program Title: Drought Advisory Committee, Drought Restrictions & Enforcement Hotline

Function: Response, Communication, Monitoring and Prediction

Program Assistance or Functional Assistance: Monitors drought conditions and informs state officials and the public; imposes restrictions.

Statute or Authority: Executive Branch, Executive Order

Agencies (primary agency listed first): Chaired by the Governor's Office

Customers Served: General public

Triggering Event or Circumstance-How does this program relate to drought? At the onset of drought

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Jeffrey Bullock, Governor's Chief of Staff (302) 739-4101

Delaware State Drought Programs

Program Title: Drought Homepage

Function: Communication

Program Assistance or Functional Assistance: Informs the public about current status, restrictions, etc.

Statute or Authority: Executive Branch

Agencies (primary agency listed first): Site maintained by Dept. of Natural Resources & Environmental Control

Customers Served: General public

Triggering Event or Circumstance-How does this program relate to drought? ongoing

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: No data

Florida State Drought Programs

Program Title: Water Resources Act

Function: Mitigation, Response, Monitoring and Prediction, Communication

Program Assistance or Functional Assistance: Provides the framework for all water supply activities, including Florida Department of Environmental Protection (FDEP) oversight of specific programs delegated to the five regional water management districts.

Statute or Authority: Chapter 373, Florida Statute, Chapter 62-40, F.A.C.

Agencies (primary agency listed first): FDEP

Customers Served: The five regional water management districts (WMDs) and their customers

Triggering Event or Circumstance-How does this program relate to drought? Specific programs have been legislatively mandated in response to "water shortage" events (short-term droughts and long-term resource problems). Water policy is in effect on a continual basis; each specific program has trigger mechanisms.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: Customer education (so that they understand and use existing coordination mechanisms); customers who span more than one region (or who compete for related public funding) would like more consistency.

Program Limitations: Requires significant oversight because of the dependence on regional programs which may not be consistently developed, revised, and/or applied. Legislative amendments have created some duplicative and contradictory mandates.

Contact Name and Phone Number: Laura Mooney, FDEP
(850) 488-0784

Florida State Drought Programs

Program Title: Water Shortage Plan

Function: Mitigation, Response, Monitoring and Prediction, Communication, Planning

Program Assistance or Functional Assistance: Provides the framework for water supply activities, including Florida Department of Environmental Protection (FDEP) oversight of specific programs delegated to the five regional water management districts. Monitors hydrologic conditions and water demand; uses different phases of educational efforts and/or restrictions during "water shortage" events to protect natural systems and water supplies.

Statute or Authority: Specific authority from Section 373.175, F.S., Chapter 62-40, F.A.C. Each regional water mgmt. district has applicable Rule.

Agencies (primary agency listed first): FDEP; NFWWMD (Chapter 40A-21, F.A.C.), SRWMD Water Shortage Plan, SJRWMD (Chapter 40C-21, F.A.C.), SWFWMD (Chapter 40D-21, F.A.C.), SFWMD (Chapter 40E-21, F.A.C.)

Customers Served: Natural systems; public and private water systems; self-supplied agriculture; self-supplied mining & industry; self-supplied recreational users; self-supplied domestic users; general public

Triggering Event or Circumstance-How does this program relate to drought? Hydrologic triggers specific to each region and subregional area (monitor well levels, streamflow, lake levels, drought indices, etc.). Trigger values cause phased responses (appropriate educational efforts and/or "water shortage" regulations) to be implemented. Each district currently has up to five phases of pre-planned regulatory responses.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: Additional customer education. More appropriate application of alternatives to traditional restrictions (such as "water budget" approaches). Better consistency and coordination between districts. Customers want additional mitigation (alternative water supply development) and a more equitable approach (less emphasis on traditional lawn and landscape restrictions).

Program Limitations: Some media markets span multiple districts (and therefore span specific hydrologic triggers). The relative importance and level of involvement by different customers has varied between districts; as a result, there has been a divergence in the application of responses (including local government participation in enforcement). Enforcement of traditional restrictions is staff-intensive for districts and local governments.

Contact Name and Phone Number: Guy Gowens, NFWWMD (850) 539-5999; Bill Kirk, SRWMD (904) 362-1001; Dwight Jenkins, SJRWMD; (904) 329-4500; Lois Sorensen, SWFWMD(352) 796-7211; Scott Burns, SFWMD (561) 686-8800

Florida State Drought Programs

Program Title: Consumptive (Water) Use Permitting

Function: Mitigation, Response, Monitoring and Prediction

Program Assistance or Functional Assistance: Limits water use to "reasonable-beneficial" quantities and reserves the right to further limit water use during declared "water shortage" events.

Statute or Authority: Specific authority from Section 373.019, 373.223, 373.246, F.S.; Chapter 62-40, F.A.C. Each district has applicable Rule.

Agencies (primary agency listed first): FDEP; NFWMD (Chapter 40A-2, F.A.C.), SRWMD (Chapter 40B-2, F.A.C.), SJRWMD (Chapter 40C-2, F.A.C.), SWFWMD (Chapter 40D-2, F.A.C.), SFWMD (Chapter 40E-2, F.A.C.)

Customers Served: Public supply, commercial & industrial, and agriculture

Triggering Event or Circumstance-How does this program relate to drought? User applies for certain amount of water through permit process.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: Water resource limitations. Improved coordination and consistency among WMD rules.

Program Limitations: Rule inconsistencies between water management districts (e.g. agricultural irrigation allocations). To date, permitting has not addressed cumulative regional impacts.

Contact Name and Phone Number: Scott Burns, SFWMD
(561) 686-8800

Florida State Drought Programs

Program Title: Water Resource Caution Areas (WRCA)

Function: Mitigation, Response, Monitoring and Prediction, Planning

Program Assistance or Functional Assistance: Requires that each water management district identify "water resource caution areas" (areas facing long-term water resource problems, generally "supply versus demand" in nature) and develop management plans (including but not limited to appropriate regulation) to address each area's problems.

Statute or Authority: Specific authority from Section 373.036, F.S., Section 62-40.520(1), F.A.C. Applicable Rule(s) have been updated to reflect this program.

Agencies (primary agency listed first): FDEP; NFWWMD (Chapter 40A-2, F.A.C.), SRWMD (not in Rule), SJRWMD (Chapter 40C-23, F.A.C.), SWFWMD (Chapter 40D-2, F.A.C.), SFWMD (Chapter 40E-23, F.A.C.)

Customers Served: Natural systems; public and private water systems; agriculture; mining & industry; recreational users; domestic users

Triggering Event or Circumstance-How does this program relate to drought? District water supply assessments identify areas that are not capable of meeting future demands based on a 20-year planning horizon.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: Improved coordination and consistency

Program Limitations: Inconsistency in setting resource protection criteria. Uncertainty of demand projections.

Contact Name and Phone Number: Tom Swihart FDEP
(850) 488-0784

Florida State Drought Programs

Program Title: Minimum Flows & Levels

Function: Mitigation, Response, Monitoring and Prediction

Program Assistance or Functional Assistance: Requires that each water management district develop "minimum flows and levels" for priority water bodies and ground water systems. Also requires the development and implementation of recovery strategies.

Statute or Authority: Specific authority from Section 373.042, F.S. Applicable Rule(s) have been updated or created to reflect this program

Agencies (primary agency listed first): FDEP; NFWWMD (not in rule), SRWMD (not in rule), SJRWMD (Chapter 40C-8, F.A.C.), SWFWMD (Chapter 40D-8 and 80), SFWMD (Chapter 40E-22, F.A.C.)

Customers Served: Natural systems; public and private water systems; agriculture; mining & industry; recreational users; domestic users

Triggering Event or Circumstance-How does this program relate to drought? If a watercourse is threatened such that future withdrawals would be significantly harmful to the water resource or ecology of the area.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: Need for additional research on resource protection and how to define significant harm. Coordination and consistency among WMDs

Program Limitations: Inconsistency among WMDs on establishing MFLs. Implementation and enforcement of MFLs.

Contact Name and Phone Number: Kathleen Greenwood FDEP
(850) 488-0784
Karl Kurka FDEP
(850) 488-0784

Florida State Drought Programs

Program Title: Regional Water Supply Assessment Planning (RWSP)

Function: Mitigation, Response, Monitoring and Prediction, Communication, Planning

Program Assistance or Functional Assistance: Requires that each water management district perform water supply assessments (water demand projections and anticipated water supplies through the year 2020). Also requires regional water supply planning (detailed studies and development of additional sources) when water demand projections exceed the anticipated water supplies.

Statute or Authority: Specific authority from Section 373.0361, F.S.; Chapter 62-40, F.A.C. Applicable Rule(s) are being updated to reflect this program (plans are under development).

Agencies (primary agency listed first): FDEP; NFWMD, SRWMD, SJRWMD, SWFWMD, SFWMD

Customers Served: Natural systems; public and private water systems; agriculture; mining & industry; recreational users; domestic users

Triggering Event or Circumstance-How does this program relate to drought? Water Supply assessments identify Water Resource Caution Areas. Each area should have a Regional Water Supply Plan.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: Groundwater and resource protection modeling. Need for water use efficiency and reuse research. Coordination and consistency among WMDs.

Program Limitations: Uncertainty of projecting future demands. Inconsistency in setting resource protection criteria for water supply planning. Balancing resource protection with water supply development. Coordination among public suppliers for regional solutions.

Contact Name and Phone Number: Kathleen Greenwood FDEP
(850) 488-0784
Karl Kurka FDEP
(850) 488-0784

Georgia State Drought Programs

Program Title: Water Withdrawal Permitting

Function: Mitigation, Planning

Program Assistance or Functional Assistance: Preparation of a drought management plan is required as a condition of water withdrawal permit issuance.

Statute or Authority: Georgia Water Quality Control Act

Agencies (primary agency listed first): Georgia Environmental Protection Division; Water Resources Branch

Customers Served: Persons served by public water systems

Triggering Event or Circumstance-How does this program relate to drought? Application for permit for water withdrawal

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: Local governments define condition under which local governments will trigger drought management plans.

Contact Name and Phone Number: Napoleon Caldwell, Georgia EPD
(404) 656-3094

Georgia State Drought Programs

Program Title: Drinking Water Permitting Program

Function: Mitigation, Response

Program Assistance or Functional Assistance: Georgia EPD Director has authority to issue directive requiring reductions in water use/permitted withdrawals.

Statute or Authority: Georgia Water Quality Control Act; GA Ground Water Use Act

Agencies (primary agency listed first): Georgia Environmental Protection Division

Customers Served: Persons served by public water systems

Triggering Event or Circumstance-How does this program relate to drought? No data

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Nolton Johnson Water Resources Branch
(404) 651-5168

Georgia State Drought Programs

Program Title: Water Resources Management Program

Function: Mitigation, Response

Program Assistance or Functional Assistance: Statute assigns first priority to availability of water for human consumption; second to agriculture.

Statute or Authority: Georgia Ground Water Use Act

Agencies (primary agency listed first): Georgia Environmental Protection Division

Customers Served: Persons served by public water systems

Triggering Event or Circumstance-How does this program relate to drought? No data

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Nolton Johnson, Water Resources Branch
(404) 651-5168

Georgia State Drought Programs

Program Title: Agricultural Disaster Declaration and Damage Assessment Reports (DAR's)

Function: Response

Program Assistance or Functional Assistance: The Commissioner of Agriculture sends a letter to the Governor describing Georgia's agricultural situation and need for DAR's to determine the damage caused by drought, freezes, rain or other natural disaster. The Commissioner, in this letter, asks the Governor to contact the United States Secretary of Agriculture requesting that he direct the Georgia Farm Service Agency (FSA) State Executive Director to survey and repair DAR's. The Governor sends a copy of his request to the Georgia Commissioner of Agriculture, Georgia Farm Service Agency and Georgia Emergency Management Agency (GEMA). When the Secretary of Agriculture declares that the affected and contiguous counties are eligible, the loan program is administered by FSA.

Statute or Authority: No data

Agencies (primary agency listed first): GA Dept. of Agriculture

Customers Served: Farmers, ranchers

Triggering Event or Circumstance-How does this program relate to drought? Minimal precipitation; low soil moisture; projected and realized crop losses and decreases in yields; animal feed and forage shortfall reports received from federal crop and weather authorities, county agents, agricultural organizations, individual farmers.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Brenda James Griffin, Assistant Commissioner, Office of Public Affairs
(404) 656-3689 or 1-800-282-5852

Georgia State Drought Programs

Program Title: The Farmers and Consumer Market Bulletin

Function: Communication

Program Assistance or Functional Assistance: A weekly tabloid newspaper that provides information to farmers and consumers with over 285,000 state subscribers. Disseminates drought data, survey information and federal drought program status and availability.

Statute or Authority: No data

Agencies (primary agency listed first): No data

Customers Served: No data

Triggering Event or Circumstance-How does this program relate to drought? Minimal precipitation; low soil moisture; projected and realized crop losses and decreases in yields; animal feed and forage shortfalls reports received from federal crop and weather authorities, county agents, agricultural organizations, individual farmers.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No direct funding or staff provided for targeting and verification of data and information provided by federal and/or local governments and other sources.

Contact Name and Phone Number: No data

Georgia State Drought Programs

Program Title: GDA Press Services

Function: Communication

Program Assistance or Functional Assistance: Generates statewide media alerts and advisories that are localized; and conducts statewide surveys of agricultural industries and organizations to obtain state production data by crop, county, region.

Statute or Authority: No data

Agencies (primary agency listed first): No data

Customers Served: No data

Triggering Event or Circumstance-How does this program relate to drought? Minimal precipitation; low soil moisture; projected and realized crop losses and decreases in yields; animal feed and forage shortfalls reports received from federal crop and weather authorities, county agents, agricultural organizations, individual farmers.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No direct funding or additional staff provided for targeting and verification of data and information provided by federal and/or local governments and other sources.

Contact Name and Phone Number: No data

Georgia State Drought Programs

Program Title: GDA Farmers' Hotline

Function: Communication

Program Assistance or Functional Assistance: Utilization of the department's toll-free "Ag Consumer Line," augmented by additional intrastate and interstate telephone lines, to receive and disseminate information to individual farmers and agricultural organizations.

Statute or Authority: No data

Agencies (primary agency listed first): No data

Customers Served: No data

Triggering Event or Circumstance-How does this program relate to drought? Minimal precipitation; low soil moisture; projected and realized crop losses and decreases in yields; animal feed and forage shortfalls reports received from federal crop and weather authorities, county agents, agricultural organizations, individual farmers.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No direct funding or additional staff provided for program operation

Contact Name and Phone Number: No data

Georgia State Drought Programs

Program Title: Emergency Livestock Feeding Project

Function: Response

Program Assistance or Functional Assistance: Coordinates the distribution, transportation, and storage of hay and other animal feed donated or provided at reduced costs during drought events that limit, reduce or eliminate the capacity of

state farmers to provide adequate feed for livestock. Conducts laboratory and on-site testing and inspections of agricultural commodities provided to protect and safeguard the state's livestock industries.

Statute or Authority: No data

Agencies (primary agency listed first): No data

Customers Served: No data

Triggering Event or Circumstance-How does this program relate to drought? Minimal precipitation; low soil moisture; projected and realized crop losses and decreases in yields; animal feed and forage shortfalls reports received from federal crop and weather authorities, county agents, agricultural organizations, individual farmers.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No direct funding or additional staff provided for program operation

Contact Name and Phone Number: No data

Hawaii State Drought Programs

Program Title: Hazard Mitigation Grant Program

Function: Mitigation

Program Assistance or Functional Assistance: Cost-effective projects which will substantially reduce the risk of future damage, hardship, loss, or suffering in any area affected by a major disaster. The total contributions shall not exceed 15 percent of the estimated aggregate amount of grants to be made with respect to a major disaster.

Statute or Authority: Hawaii Revised Statutes, Chapter 26 and 128, authorize the State Department of Defense, State Civil Defense, to provide disaster relief to its citizens including the implementation of Federal disaster relief programs; HMGP is authorized by Section 404 of the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended, P.L. 93-288.

Agencies (primary agency listed first): Civil Defense Division

Customers Served: State agencies, county governments, and private nonprofit organizations.

Triggering Event or Circumstance-How does this program relate to drought? Federally declared disaster

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: More execution authority for the states

Program Limitations: Cost share is required.

Contact Name and Phone Number: Roy C. Price, Sr.,
(808) 799-4300

Hawaii State Drought Programs

Program Title: Emergency Management Performance Grant

Function: Mitigation, Planning

Program Assistance or Functional Assistance: Formula grants to develop or expand disaster preparedness and mitigation assistance plans, programs, capabilities and organizations.

Statute or Authority: Hawaii Revised Statutes, Chapter 26 and 128, authorize the State Department of Defense to provide disaster relief to the citizens of the State including the implementation of Federal disaster relief programs. State and Local Assistance (SLA) is authorized in Sections 201 and 513 of the Robert T. Stafford Disaster Relief and Emergency Relief Assistance Act, as amended, P.L. 93-228.

Agencies (primary agency listed first): Civil Defense Division

Customers Served: State agencies and county governments

Triggering Event or Circumstance-How does this program relate to drought? Annual cooperative agreement

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: More flexibility such as authorization of equipment purchase

Program Limitations: Funds are limited and based on cost share.

Contact Name and Phone Number: Roy C. Price, Sr.,
(808) 799-4300

Idaho State Drought Programs

Program Title: Idaho Drought Plan

Function: Response, Planning

Program Assistance or Functional Assistance: As soon as information concerning the upcoming year's water supply becomes available, the Idaho Dept. of Water Resources (IDWR) will begin analyzing the data to determine if there is potential for a water supply problem. If it becomes apparent that a problem could occur, IDWR will alert the Governor's Office and will organize a water supply committee to coordinate all drought-related activities in Idaho.

Statute or Authority: No data

Agencies (primary agency listed first): Idaho Dept. of Water Resources, Idaho Bureau of Disaster Services, Idaho Dept. of Health and Welfare, Idaho Dept. of Ag. and others

Customers Served: Entire state of Idaho

Triggering Event or Circumstance-How does this program relate to drought? No data

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: No data

Illinois State Drought Programs

Program Title: Illinois Emergency Management Agency (IEMA)

Function: Response

Program Assistance or Functional Assistance: This agency is concerned with the emergency and short-term effects of a drought. In the event of a drought disaster, IEMA would coordinate the responses of all state agencies and would work with all the local IEMA units. A limited supply of pipe and pumps are available for a short-term loan to communities. IEMA also serves as the state coordinator for all federal disaster programs.

Statute or Authority: No data

Agencies (primary agency listed first): Illinois Environmental Protection Agency, IL Dept. of Natural Resources

Customers Served: General public

Triggering Event or Circumstance-How does this program relate to drought? Declaration of drought by the Governor

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Donald Vonnahme, 524 South Second St., Springfield, IL 62701

Illinois State Drought Programs

Program Title: Illinois Environmental Protection Agency (IEPA)

Function: Monitoring and Prediction

Program Assistance or Functional Assistance: The IEPA monitors public water supplies and maintains contact with the communities involved. The staff offers technical assistance and also works with other state agencies in attempting to resolve water shortage problems. The IEPA has also prepared a list of sewage treatment plants with discharge affluent of sufficient quality to permit its use by farmers for stock watering in drought-pressed areas.

Statute or Authority: No data

Agencies (primary agency listed first): Illinois Environmental Protection Agency, IL Dept. of Natural Resources

Customers Served: Farmers, general public

Triggering Event or Circumstance-How does this program relate to drought? Declaration of drought by the Governor

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Donald Vonnahme, 524 South Second St., Springfield, IL 62701

Illinois State Drought Programs

Program Title: Illinois Dept. of Agriculture (IDOA)

Function: Response

Program Assistance or Functional Assistance: The IDOA assists farmers in water-short areas in obtaining water for livestock and performs other related supporting roles.

Statute or Authority: No data

Agencies (primary agency listed first): Illinois Environmental Protection Agency, IL Dept. of Natural Resources

Customers Served: Farmers

Triggering Event or Circumstance-How does this program relate to drought? Declaration of drought by the Governor

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Donald Vonnahme, 524 South Second St., Springfield, IL 62701

Illinois State Drought Programs

Program Title: Illinois Dept. of Public Health (IDPH)

Function: Response

Program Assistance or Functional Assistance: IDPH assesses the potability of water derived from privately owned sources and from sources shared by ten or fewer housing units. Water from these sources can be tested for potability by the department, at no cost.

Statute or Authority: No data

Agencies (primary agency listed first): Illinois Environmental Protection Agency, IL Dept. of Natural Resources

Customers Served: General public

Triggering Event or Circumstance-How does this program relate to drought? No data

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Donald Vonnahme, 524 South Second St. Springfield, IL 62701

Illinois State Drought Programs

Program Title: Illinois Dept. of Natural Resources (IDNR)

Function: Monitoring and Prediction, Planning

Program Assistance or Functional Assistance: This department houses various offices such as: (1) State Geological Survey -- maintains information on the location of the more highly producing aquifers and assists with the exploration and mapping of smaller aquifer locations. (2) State Water Survey -- conducts scientific studies into measurement, utilization, and conservation of water, with emphasis on surface supplies and precipitation. Of critical importance to drought contingency planning are the long-range monthly and seasonal precipitation outlooks issued by the survey for those parts of the State with water shortage problems. (3) Office of Resource Conservation -- monitors and reports on the status of state-owned and public lakes and any observed impacts on fish, forestry, and wildlife. (4) Office of Water Resources -- concerns itself with water supply issues, as well as technical assistance in planning and water system design, special district organization, or the search for funding alternatives.

Statute or Authority: No data

Agencies (primary agency listed first): Illinois Environmental Protection Agency, IL Dept. of Natural Resources

Customers Served: General public

Triggering Event or Circumstance-How does this program relate to drought? Declaration of drought by the Governor

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Donald Vonnahme, 524 South Second St., Springfield, IL 62701

Indiana State Drought Programs

Program Title: Water Shortage Plan

Function: Response, Planning

Program Assistance or Functional Assistance: The purpose of this plan is to provide the State of Indiana with an effective and systematic plan to assess and manage the State's water resources during a water shortage or potential water shortage to respond, to the maximum extent practicable, to the needs of its water users while protecting its environment. It is intended to serve as a tool for the State of Indiana to guide the use and management of the state's water resource as the availability of that resource diminishes during events such as drought.

Statute or Authority: Indiana Code 13-2-6.1-10

Agencies (primary agency listed first): Indiana Dept. of Natural Resources, USGS

Customers Served: Citizens and environments of Indiana

Triggering Event or Circumstance-How does this program relate to drought? No data

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: No data

Iowa State Drought Programs

Program Title: Drought Task Force (Ad hoc)

Function: Response, Monitoring and Prediction, Communication, Planning

Program Assistance or Functional Assistance: Monitors drought conditions and informs state officials and the public. IA DNR maintains the drought plan.

Statute or Authority: Executive Branch

Agencies (primary agency listed first): IA Dept. of Natural Resources, IA Emergency Management Division

Customers Served: Localities, general public

Triggering Event or Circumstance-How does this program relate to drought? At the onset of drought, based on impacts

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Jerry Osterdorf, Operations Chief, IA EMD (515) 281-3231

Iowa State Drought Programs

Program Title: IA Contingent Fund

Function: Response

Program Assistance or Functional Assistance: State provides zero-interest loans to local entities for emergency costs beyond normal expense.

Statute or Authority: IA Code 29 C

Agencies (primary agency listed first): IA Emergency Management Division

Customers Served: Localities, general public

Triggering Event or Circumstance-How does this program relate to drought? At the onset of drought emergency

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: Potable water for human use only, not for agriculture or livestock.

Contact Name and Phone Number: Jerry Osterdorf, Operations Chief, IA EMD
(515) 281-3231

Kansas State Drought Programs

Program Title: Drought Response Team

Function: Response

Program Assistance or Functional Assistance: Activated by the Governor when advised by the Monitoring Group headed by the Water Office. Triggers are used by group.

Statute or Authority: Executive

Agencies (primary agency listed first): Kansas Water Office (KWO), Agriculture, Emergency Management, National Weather Service

Customers Served: Localities, general public

Triggering Event or Circumstance-How does this program relate to drought? Ongoing, and at the onset of drought

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Earl Lewis, KWO, 109 SW 9th, Topeka, KS 66121
(785) 296-3185,

Kansas State Drought Programs

Program Title: Water Assurance Districts, 3

Function: Mitigation, Response

Program Assistance or Functional Assistance: Water is stored in Corps of Engineers facilities for use by the districts in times of drought.

Statute or Authority: Executive

Agencies (primary agency listed first): Kansas Water Office

Customers Served: Localities, general public

Triggering Event or Circumstance-How does this program relate to drought? Ongoing, and at the onset of drought

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Earl Lewis, KWO,
109 SW 9th, Topeka, KS 66121
(785) 296-3185,

Kentucky State Drought Programs

Program Title: Dept. of Natural Resources (DNR), Water Resources Web Site

Function: Monitoring and Prediction, Communication

Program Assistance or Functional Assistance: Drought Status Home Page, links to other relevant sites

Statute or Authority: No data

Agencies (primary agency listed first): Kentucky DNR

Customers Served: State of Kentucky

Triggering Event or Circumstance-How does this program relate to drought? Ongoing

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: Counties, towns, citizens

Program Limitations: No data

Contact Name and Phone Number: Ed Neal
(502) 564-3410

Kentucky State Drought Programs

Program Title: Dept. of Natural Resources (DNR), Water Resources Model Plan

Function: Mitigation, Planning

Program Assistance or Functional Assistance: Model Water Shortage Response Plan

Statute or Authority: KRS 151.110

Agencies (primary agency listed first): Kentucky DNR

Customers Served: County and municipal governments, Area Development Districts

Triggering Event or Circumstance-How does this program relate to drought? In process

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Kentucky Div. of Water Resources
(502) 564-3410

Kentucky State Drought Programs

Program Title: County Water Shortage Response Plans

Function: Mitigation, Response, Planning

Program Assistance or Functional Assistance: County Water Supply Plans must have an assessment of drought-related inadequacies for the next 20 years.

Statute or Authority: KRS 151.110

Agencies (primary agency listed first): Kentucky DNR

Customers Served: County and municipal governments, Area Development Districts

Triggering Event or Circumstance-How does this program relate to drought? In process

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Kentucky Div. of Water Resources
(502) 564-3410

Maine State Drought Programs

Program Title: Drought Plan Activation

Function: Monitoring and Prediction, Planning

Program Assistance or Functional Assistance: In order for the Governor to exercise his emergency powers, he must be informed of the water supply situation in the state. Drought Task Force members monitor the supply of water each month to determine availability. The U.S. Geological Survey in cooperation with the Marine Geological Survey produces a report titled "Current Water Resources Conditions in Maine" monthly. Data collected by the USGS and that provided by members of the River Flow Advisory Committee is the basis of this report. The USDA, cooperating with Maine Dept. of Ag., collects crop data on a county basis.

Statute or Authority: No data

Agencies (primary agency listed first): Maine Emergency Management, Maine Veteran's Services, Military Bureau, Admin. Services Division

Customers Served: General public, farmers, ranchers

Triggering Event or Circumstance-How does this program relate to drought? Emergency proclamation issued by the Governor

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: John W. Libby, Director, Maine Emergency Management Agency
(207) 626-4202

Maine State Drought Programs

Program Title: Aroostook Water and Soil Management Board

Function: Mitigation

Program Assistance or Functional Assistance: Identification of irrigating farmers is critical to determining the extent of water use and the potential future withdrawal trouble spots. The Board recognizes the need to assist farmers in

reducing risks by adoption of irrigation. A team of agencies will, if requested, assist farmers in determining how irrigation can be implemented on their farm.

Statute or Authority: No data

Agencies (primary agency listed first): NRCS, Maine Dept. of Ag., University of Maine Cooperative Extension

Customers Served: General public, farmers

Triggering Event or Circumstance-How does this program relate to drought? No data

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: John W. Libby, Director, Maine Emergency Management Agency
(207) 626-4202

Maryland State Drought Programs

Program Title: Water Supply Program, Planning & Engineering

Function: Monitoring and Prediction

Program Assistance or Functional Assistance: Tracks ground water levels, streamflows, reservoir levels, precipitation and water system management efforts to determine stages of drought.

Statute or Authority: No data

Agencies (primary agency listed first): Maryland Department of the Environment (MDE)

Customers Served: Water systems and citizens

Triggering Event or Circumstance-How does this program relate to drought? Determines when drought conditions exist.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Saeid Kasrael
(410) 631-3702

Maryland State Drought Programs

Program Title: Safe Drinking Water Emergency

Function: Mitigation

Program Assistance or Functional Assistance: Permitting process that requires a drought response and plans for all appropriations. Additionally, water conservation plans are needed for appropriation where requested amount exceeds expected use rates. The Department may also prioritize existing permits to ensure that under water supply emergency conditions, needs for sanitation, drinking water, public health and safety are adequately met. Agricultural uses are second and all other uses follow.

Statute or Authority: Environment Article 5-502

Agencies (primary agency listed first): Maryland Department of the Environment (MDE)

Customers Served: Water appropriators and citizens

Triggering Event or Circumstance-How does this program relate to drought? Permits issued for no longer than 12 years.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Saeid Kasrael
(410) 631-3702

Maryland State Drought Programs

Program Title: Safe Drinking Water Emergency

Function: Response, Communication, Planning

Program Assistance or Functional Assistance: Declaration of Drought Warning - Secretary of Dept. to have a plan to ensure safe water under emergency circumstances. The Secretary may take any action under an emergency to ensure that safe drinking water is provided if not otherwise available.

Statute or Authority: Environment Article 9-406

Agencies (primary agency listed first): Maryland Department of the Environment (MDE)

Customers Served: Water suppliers, citizens

Triggering Event or Circumstance-How does this program relate to drought? Based on drought conditions

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Saeid Kasrael
(410) 631-3702

Maryland State Drought Programs

Program Title: Maryland Emergency Management Agency

Function: Response, Communication

Program Assistance or Functional Assistance: MEMA coordinates requests to the National Guard for providing supplemental water supplies where needed, coordinates requests for federal assistance during declared droughts, and assists in obtaining federal declarations of drought emergency. MEMA has compacts with other states to coordinate sharing of resources during emergency conditions.

Statute or Authority: Article 16 A, MEMA Act, Article 41, Section 17

Agencies (primary agency listed first): MEMA, National Guard

Customers Served: Citizens

Triggering Event or Circumstance-How does this program relate to drought? Governor must declare emergency to obtain resources for extended periods.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Dave McMillion
(410) 486-4422

Maryland State Drought Programs

Program Title: Emergency Drought Assistance

Function: Response

Program Assistance or Functional Assistance: Allocation of emergency funds by Governor to help provide relief to farmers. Funds are for cover crops, small grains, feed assistance and water supply.

Statute or Authority: No data

Agencies (primary agency listed first): No data

Customers Served: Farmers

Triggering Event or Circumstance-How does this program relate to drought? Program triggered as a result of current drought

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: (410) 841-5803
MD Dept. of Agriculture

Maryland State Drought Programs

Program Title: Natural Resources Forest Service

Function: Response, Monitoring and Prediction, Communication

Program Assistance or Functional Assistance: Program to evaluate fire hazard of forest areas.

Statute or Authority: No data

Agencies (primary agency listed first): Dept. Natural Resources

Customers Served: Forest owners, citizens

Triggering Event or Circumstance-How does this program relate to drought? Ongoing

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Jim Mallow
(410) 260-2531

Maryland State Drought Programs

Program Title: Dam Safety

Function: Mitigation

Program Assistance or Functional Assistance: Requires all dams to have releases for protection of aquatic life.

Statute or Authority: Environment-Article 5-503

Agencies (primary agency listed first): MDE

Customers Served: Dam owners, downstream users

Triggering Event or Circumstance-How does this program relate to drought? Ongoing

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: No data

Maryland State Drought Programs

Program Title: Interstate River Basin Compact

Function: Response, Monitoring and Prediction

Program Assistance or Functional Assistance: MEMA has made and implements compacts with other states to coordinate sharing of resources during emergency conditions.

Statute or Authority: Environment Article 5-301 and 5-303

Agencies (primary agency listed first): ICPRB and SRBC

Customers Served: Water suppliers and citizens

Triggering Event or Circumstance-How does this program relate to drought? No data

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Paul Swartz (SRBC)
(717) 238-0423
Rolanda Steiner (ICPRB)
(301) 984-1908

Maryland State Drought Programs

Program Title: Weekly Crop Reports

Function: Communication

Program Assistance or Functional Assistance: Tracks weekly crop yields/conditions, soil moisture and precipitation as compared to previous years and weeks.

Statute or Authority: No data

Agencies (primary agency listed first): Dept. of Agriculture

Customers Served: Farmers

Triggering Event or Circumstance-How does this program relate to drought? Ongoing

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Don Vandrey
(410) 841-5393

Massachusetts State Drought Programs

Program Title: Emergency Loans (Farming Operations)

Function: Response

Program Assistance or Functional Assistance: To assist established family farmers, ranchers, and aquaculture operators to obtain loans to cover losses resulting from disasters.

Statute or Authority: No data

Agencies (primary agency listed first): USDA, FSA

Customers Served: Family farmers, ranchers, and aquaculture operators

Triggering Event or Circumstance-How does this program relate to drought? Presidential declaration of a major disaster or emergency under the Stafford Act; designation by the Secretary of Agriculture or by administrator.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Director, Farmer Loan-making Division,
FSA, USDA
(202) 720-1632

Michigan State Drought Programs

Program Title: Dept. of Natural Resources Drought Response Plan

Function: Response, Planning

Program Assistance or Functional Assistance: An interdepartmental drought response management task force will be formed to coordinate short-term and long-term strategies for dealing with drought conditions in Michigan. This effort will be coordinated by the Office of Water Resources. A short-term drought response strategy coordinated by various agencies will identify specific actions to best conserve, protect, and equitably use water resources during drought emergency.

Statute or Authority: No data

Agencies (primary agency listed first): Dept. of Natural Resources, Agriculture, Attorney General, Commerce, and Public Health

Customers Served: Entire State

Triggering Event or Circumstance-How does this program relate to drought? No data

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Kim Klemsz
(402) 472-6707

Minnesota State Drought Programs

Program Title: System-Wide Low-Flow Management Plan, Mississippi River above St. Paul, MN

Function: Response, Planning

Program Assistance or Functional Assistance: During extreme low-flow events on the Mississippi River above St. Paul, MN, hydropower operations and adjustments to reservoir control structure gates have the potential to cause large percentage changes in river flow. Large flow fluctuations, especially during periods of low flow, can have significant negative impacts on instream fish and wildlife and can create water supply problems for downstream users. Droughts and associated low flows are inevitable, but artificial flow fluctuations can exacerbate the negative impacts.

Statute or Authority: No data

Agencies (primary agency listed first): Federal Energy Regulatory Commission, MN Dept. of Natural Resources, U.S. Geological Survey

Customers Served: General public

Triggering Event or Circumstance-How does this program relate to drought? When the average daily river flow is at or below the trigger flow. Trigger flows for this plan are measured at the closest active United States Geological Survey (USGS) gauging station and roughly approximate the annual 90% exceedance flow at each gauge.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: David R. Ford, Surface Water Engineer (651) 296-0437

Mississippi State Drought Programs

Program Title: Drought Task Force (ad hoc)

Function: Mitigation, Response, Monitoring and Prediction, Communication

Program Assistance or Functional Assistance: No data

Statute or Authority: Executive Branch

Agencies (primary agency listed first): MS Land and Water Resources, Div. of Environmental Quality

Customers Served: Localities, general public

Triggering Event or Circumstance-How does this program relate to drought? Formed as needed. MS ordinarily receives 55 inches of annual precipitation.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: MS is heavily dependent on deep wells.

Contact Name and Phone Number: Charles Branch, MS Land & Water Resources
(601) 961-5200

Missouri State Drought Programs

Program Title: Missouri Drought Response Plan

Function: Response, Monitoring and Prediction, Communication, Planning

Program Assistance or Functional Assistance: Provides for operations and administrative procedures. Activates Drought Assessment Committee, Impact Task Forces, Governor's Drought Executive Committee, and State Emergency Operations Center. Governor's declaration empowers State agencies to implement water shortage emergency actions.

Statute or Authority: State Water Resources Plan (Revised statutes of Missouri Chapters 640.415)

Agencies (primary agency listed first): Missouri Dept. of Natural Resources, Missouri Dept. of Agriculture, Missouri Dept. of Public Safety, Missouri Dept. of Conservation, Missouri Dept. of Social Services, University of Missouri-Columbia, DOC, USDA, US Army, DOI, EPA, FEMA

Customers Served: Water supply systems of individual ranchers and farmers, local governments, federal agencies, domestic water users, health care facilities, public uses such as electric power generation, firefighting, key military facilities, communications, and wastewater systems

Triggering Event or Circumstance-How does this program relate to drought? Water Resources Program Director declares drought alert for any region of the State; then the Director of the Department of Natural Resources may activate and chair the Drought Assessment Committee.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: Lack of U.S. coordinated response to meld with State response plan. Need for State Climatologist to be available for consultation. Lack of a permanent source or mechanism of drought response and mitigation funds at the federal or state level.

Program Limitations: Early stages are voluntary conservation measures. State mitigation grant or loan funds are limited and may be available only through mechanisms not well coordinated with emergency response plan.

Contact Name and Phone Number: Steve A. McIntosh
(573) 751-2867

Montana State Drought Programs

Program Title: Local Drought Advisory Committees

Function: Response, Communication

Program Assistance or Functional Assistance: Local drought committees provide a community forum to assess impacts, develop solutions and communicate needs to the Governor's Advisory Committee.

Statute or Authority: Governor's Drought Advisory Committee

Agencies (primary agency listed first): Governor's Drought Advisory Committee

Customers Served: Public; county government

Triggering Event or Circumstance-How does this program relate to drought? County Committees are convened on the recommendation of the Governor where drought conditions have impacted livestock grazing, crop production, fire conditions, streamflow and local businesses.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Jesse Aber
(406) 444-6628

Montana State Drought Programs

Program Title: Montana Drought Response Plan; Governor's Drought Advisory Committee

Function: Response, Mitigation, Planning

Program Assistance or Functional Assistance: Offers technical and informational support to counties and advocates on behalf of counties for federal assistance when needed.

Statute or Authority: Governor's Drought Advisory Committee

Agencies (primary agency listed first): Governor's Drought Advisory Committee

Customers Served: State and county government

Triggering Event or Circumstance-How does this program relate to drought? No data

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Jesse Aber
(406) 444-6628

Nebraska State Drought Programs

Program Title: Disaster Consequence Management

Function: Response

Program Assistance or Functional Assistance: Coordination of state emergency response to protect public health and safety, restore essential government services and provide emergency relief to governments, businesses and individuals affected by the consequences of a disaster.

Statute or Authority: Nebraska Emergency Management Act, Reissue Revised statutes of Nebraska, Section 81-829.36 to 81-829.75.

Agencies (primary agency listed first): Nebraska Emergency Management Agency

Customers Served: Local government and citizens

Triggering Event or Circumstance-How does this program relate to drought? Governor's State of Emergency Proclamation

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: Response limited to availability of state resources

Program Limitations: Activities limited to response to declared disasters

Contact Name and Phone Number: Larry E. Nedrow, Operations Officer
(402) 471-7421

Nevada State Drought Programs

Program Title: Governor's authority to enter into agreements with the United States, and its departments or agencies concerning financial aid to persons in the livestock and agriculture industries.

Function: Response

Program Assistance or Functional Assistance: \$30,000 of matching state funds for financial aid

Statute or Authority: NRS 575.050

Agencies (primary agency listed first): Nevada Department of Agriculture

Customers Served: People, firms or corporations engaged in livestock or agricultural industry

Triggering Event or Circumstance-How does this program relate to drought? Governor's declaration of emergency

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: \$30,000 maximum in state matching funds

Contact Name and Phone Number: Robert Gronowski
(775) 588-1182 ext. 239

New Hampshire State Drought Programs

Program Title: Drought Management Plan

Function: Monitoring and Prediction, Response, Communication, Planning

Program Assistance or Functional Assistance: Prepared in 1990, the state's Drought Management Plan divides the state into five Drought Management Areas, based on geography, and provides for the systematic assessment of a number of specific drought indicators and characterization in terms of four action levels: Warning, Alert, Emergency, and Disaster. In addition, it specifies a range of appropriate actions defined by assessment of drought severity and duration, but the role of the state is primarily one of coordination, information dissemination and, if necessary, mobilization of personnel and equipment in response to emergencies. The plan also provides a basis for public notice of drought level by means of news releases distributed to the mass media.

Statute or Authority: Primary source of authority for implementing drought response rests with the Governor's Emergency Powers under RSA 107-C:4.

Agencies (primary agency listed first): Plan establishes a Drought Management Team led by the NH Dept. of Environmental Services. Others include: NH Office of Emergency Mgmt.; NH Office of State Planning; NH Dept. of Ag.; NH Dept. of HHS; NH Dept. of Resources and Econ. Development.; NH Municipal Assoc; NH Water Works Assoc.; NH Business and Industry Association.

Customers Served: All citizens of the state

Triggering Event or Circumstance-How does this program relate to drought? Precipitation: 65% of normal over 4 months. Monthly streamflow: 65% of normal over 3 months. Soil moisture: Palmer Drought Severity Index less than -1.0. Groundwater levels: less than lowest 25th percentile. Reservoir levels: 90-day buffer with 85% of normal inflow.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: Lack of metering of water use in many areas

Program Limitations: Potential mitigation measures are only generally described in the existing Drought Management Plan. Plan is currently being reviewed and will be revised as necessary.

Contact Name and Phone Number: James W. Gallagher, Chief Water Resources Engineer
(603) 271-3406

New Hampshire State Drought Programs

Program Title: Rivers Management and Protection Program

Function: Monitoring and Prediction, Response

Program Assistance or Functional Assistance: The state's Rivers Management and Protection Act requires that instream flows be maintained to support instream public uses in rivers that have been designated by the Legislature for special protection. The state is currently developing instream flow rules to implement this requirement. The proposed rules, in their current form, limit consumptive use on or adjacent to public rivers during low flow periods and guarantee minimum flows at hydropower dams so that the extent and severity of low flow conditions and the resultant stress to aquatic life is not unduly exacerbated by human use of water. As low flow conditions occur, consumptive use would be incrementally curtailed to mitigate significant impacts to aquatic life.

Statute or Authority: NH Rivers Mgmt and Protection Act (RSA 483)

Agencies (primary agency listed first): NH Dept. of Environmental Services

Customers Served: All citizens of state

Triggering Event or Circumstance-How does this program relate to drought? As currently proposed, trigger flows are at seasonal Q60, Q80, and Q90 with limits on cumulative watershed consumptive use of 4%, 2%, and 0% (excepting emergency use), respectively.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: The development of low-flow duration and frequency statistics for the designated stream reaches.

Program Limitations: None

Contact Name and Phone Number: Paul M. Currier, Administrator, Watershed Management Bureau
(603) 271-3406

New Hampshire State Drought Programs

Program Title: Woodland Fire Control

Function: Mitigation, Monitoring and Prediction, Communication, Response

Program Assistance or Functional Assistance: The New Hampshire Forest Ranger staff provide at least annual training to the local fire departments in different aspects of wildland fire presuppression and suppression programs. In times of drought the daily fire weather reports assist the communities in determining whether they should issue fire permits for open burning fires. In prolonged dry times the Governor, upon the recommendation of the Dept. of Resources and Economic Development may, by official proclamation, prohibit smoking in or near woodlands and prohibit the kindling of any open fire in or near woodlands. During these times, fire permits are not issued, thereby reducing the chances of fires starting as well as the use of water for suppression. This also helps to educate local, state and federal officials and the general public about existing dry conditions.

Statute or Authority: RSA 227-L:1-24

Agencies (primary agency listed first): NH Dept. of Resources and Economic Development; NH Dept. of Environmental Services; NH Dept. of Safety; U.S. Forest Service; all NH community fire departments

Customers Served: NH fire departments and all citizens and visitors to the state

Triggering Event or Circumstance-How does this program relate to drought? A prolonged dry spell, with consistent windspeeds in excess of 15 MPH and high incidence of wildland fires (15-20+ fires per day).

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: The state cannot obtain the FEPP that communities need to help them suppress the fires nor can the state reach and train all local firefighters in wildland fire suppression.

Program Limitations: Illegal fires that are not controlled or significantly reduced following prohibitions.

Contact Name and Phone Number: Robert D. Nelson, Chief, NH Fire Dept. of Resources and Economic Development, Division of Forests and Lands, Forest Protection Bureau
(603) 271-2217

New Jersey State Drought Programs

Program Title: New Jersey Drought Emergency Plan

Function: Response

Program Assistance or Functional Assistance: The Governor is authorized to proclaim by executive order, a state of water emergency and may limit the applicability of any state of emergency to specific categories of water supplies or to specific areas of the State in which a shortage exists or impends. The Governor is further authorized to designate another to take command of the water emergency and may delegate all powers he deems necessary.

Statute or Authority: Water Supply Management Act, N.J.S.A. 58:1A-1 et seq.

Agencies (primary agency listed first): Dept of Agriculture, Dept. of Commerce, Dept. of Community Affairs, Dept. of Education, Dept. of Health, Dept. of Labor, and others

Customers Served: Entire state of NJ

Triggering Event or Circumstance-How does this program relate to drought? No data

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Judith A. Yaskin,
Commissioner Dept. of Environmental Protection

New Mexico State Drought Programs

Program Title: New Mexico Drought Plan

Function: Response, Mitigation, Communication, Planning

Program Assistance or Functional Assistance: In an effort to be more proactive and anticipate the effects of drought, New Mexico initiated in 1998 a planning effort to develop a more comprehensive drought plan that would not only address drought response but would also try to address foreseeable problems in advance of the drought. The purpose of this plan is to provide New Mexico with a framework for an integrated approach to minimize the impacts of drought on its people and resources. The plan outlines both long-term and short-term measures that are to be used to mitigate the effects of drought.

Statute or Authority: No data

Agencies (primary agency listed first): No data

Customers Served: The entire population of the state of New Mexico

Triggering Event or Circumstance-How does this program relate to drought?

Because the analysis of available drought information by the Monitoring Work Group is the basis for the determination of needed actions by other work groups, New Mexico will use an analysis of information from various indices and real-time ground truth data, to "trigger" and indicate various stages of drought status in NM.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Jennifer Salisbury, Energy Minerals and Natural Resources Dept.
(505) 827-5950

New York State Drought Programs

Program Title: New York State Drought Plan/Drought Preparedness Plan

Function: Mitigation, Response, Planning

Program Assistance or Functional Assistance: In 1982 the State Drought Management Task Force developed and recommended a State Drought Preparedness Plan. The plan presented an action program for drought prevention/mitigation, response and recovery. It specified a number of actions that needed to be undertaken immediately to prepare for possible drought conditions and included options that could be developed over a longer-range period. The plan was primarily concerned with public water supplies and was largely based on the 1980-81 drought experience.

Statute or Authority: No data

Agencies (primary agency listed first): Dept. of Environmental Education (DEC), Depts. of Health, Transportation, Economic Development, Agriculture and Markets; Office of Parks, Recreation and Historic Preservation; Public Service Comm.; Div. of Military and Naval Affairs; Division of the Budget

Customers Served: General public

Triggering Event or Circumstance-How does this program relate to drought? The most commonly used indicator of meteorological drought is the Palmer Drought Index (PDI). In addition, four major elements of the hydrologic cycle were analyzed as drought indicators and will be used for drought determinations. They are precipitation, reservoir and lake storage, streamflow, and groundwater levels.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Bob Olazagasti
(518) 457-9927
or Dr. Muralidhar
(518) 457-8973

North Carolina State Drought Programs

Program Title: North Carolina Emergency Operations Procedures for Drought Emergencies

Function: Communication, Mitigation, Monitoring and Prediction, Response

Program Assistance or Functional Assistance: Procedures for activating and administering the North Carolina Drought Monitoring Council and marshalling state resources in response to drought emergencies

Statute or Authority: North Carolina General Statute 166A

Agencies (primary agency listed first): NC Division of Emergency Management, NC Division of Water Resources, NC Dept. of Agriculture, NC State Emergency Response Team (SERT)

Customers Served: County and municipal governments; general public

Triggering Event or Circumstance-How does this program relate to drought? Drought sufficient to impact water sources, agriculture, energy availability or public health

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: Funding

Contact Name and Phone Number: Ronald R. Wall, Meteorologist & Natural Hazards Planner, NC Division of Emergency Management
(919) 733-3427

North Carolina State Drought Programs

Program Title: Water Shortage Response Handbook for North Carolina Water Supply Systems

Function: Communication, (Preparedness)

Program Assistance or Functional Assistance: Because water supply systems in North Carolina are numerous and diverse, the best place to address water shortages is at the local level. The handbook emphasizes the need for local communities and officials to develop a program to deal with a drought or other water shortage. Most important, the handbook describes how the water system can develop and set up a multi-level water shortage response program.

Statute or Authority: North Carolina General Statute 143-354(a) (1) and (3)

Agencies (primary agency listed first): North Carolina Department of Environment and Natural Resources, Division of Water Resources

Customers Served: Units of local government

Triggering Event or Circumstance-How does this program relate to drought? The local water shortage response program is designed to be in place well before a shortage develops to avoid the necessity for extreme measures later during the drought.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: Funding

Contact Name and Phone Number: Michael A. Young, P.E., Water Supply Planning Section
(919) 715-0390

North Carolina State Drought Programs

Program Title: Local and State Water Supply Planning

Function: Communication, (Preparedness), Planning

Program Assistance or Functional Assistance: All units of local governments that provide or plan to provide public water services must prepare a local water supply plan. A system's water supply plan is an assessment of water needs through the year 2020 and the ability to meet those needs. Plans must be adopted by the local governing board and submitted to the Division of Water Resources. They update the plans every five years, or more frequently as information changes. The State plan identifies systems and regions with an inadequate water supply and susceptible to drought.

Statute or Authority: North Carolina General Statute 143-355(1) and (m)

Agencies (primary agency listed first): North Carolina Division of Water Resources

Customers Served: Units of local government

Triggering Event or Circumstance-How does this program relate to drought? The water supply plan emphasizes the efficient use of water always, along with special plans for reducing water demand during a drought. Systems

with plans showing that demand will exceed 80 percent of available water supply before the year 2020 are required to submit a specific plan for obtaining additional supply. Systems with demand less than 80 percent of supply are generally less vulnerable to drought.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: Only units of local governments are required to prepare a water supply plan. The Division of Water Resources encourages other water systems to prepare a water supply plan, especially those serving 1,000 or more people.

Contact Name and Phone Number: Michael A. Young, P.E., Water Supply Planning Section
(919) 715-0390

North Carolina State Drought Programs

Program Title: North Carolina Environmental Management Commission

Function: Response

Program Assistance or Functional Assistance: The North Carolina Environmental Management Commission (EMC), based on information available, will notify units of local government of potential water shortages or emergencies affecting their water supply. The EMC will make recommendations for restricting and conserving the use of water or increasing the water supply. Failure to reasonably follow such recommendations could make the unit of local government ineligible to receive any emergency diversion of waters. Upon request from a unit of local government with a water supply shortage, the EMC may request the Governor to declare a water emergency allowing diversion of water to troubled systems. The authorization to divert water has requirements for conservation and use of the diverted water.

Statute or Authority: North Carolina General Statute 143-354(a) (1) and (3) 143-354 (b) and (c)

Agencies (primary agency listed first): North Carolina Environmental Management Commission, North Carolina Division of Water Resources

Customers Served: Units of local government

Triggering Event or Circumstance-How does this program relate to drought? Ordinary powers of the North Carolina Environmental Management

Commission that can be triggered by reports from the Division of Water Resources or others during potential water shortages including drought.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Michael A. Young, P.E., Water Supply Planning Section
(919) 715-0390

North Carolina State Drought Programs

Program Title: Weather & Crops Weekly Report

Function: Monitoring and Prediction

Program Assistance or Functional Assistance: Chronicles the current conditions of crops in the fields and potential problems with crop stresses. Also includes precipitation totals, mean, maximum, and minimum temperatures for the previous week for several specific locations across the State. Conducted in cooperation with the Extension Service and other Ag agencies that monitor the state of agriculture and drought conditions in each of the 100 counties in North Carolina.

Statute or Authority: No data

Agencies (primary agency listed first): USDA's National Agricultural Statistics Service

Customers Served: Farmers, news media, agriculture agencies

Triggering Event or Circumstance-How does this program relate to drought? Published weekly

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Donald Buysse, NC Dept. of Agriculture
(919) 733-6333 ext. 268

North Dakota State Drought Programs

Program Title: Douglas C. Friez, State Director Division of Emergency Management (DEM)

Function: Communication, Mitigation, Monitoring and Prediction, Response

Program Assistance or Functional Assistance: DEM is the custodian of the ND Emergency Operations Plan. The plan calls for DEM to coordinate efforts of up to 40 state agencies in emergency/disaster initiatives as follows: alerting and warning; situation assessment; activating resources; implementing response, recovery and restoration measures; and maintaining public education awareness, as well as liaison and coordination with local and federal governments and private resources.

Statute or Authority: Chapter 37-17.1 (01-23); North Dakota Century Code

Agencies (primary agency listed first): All state agencies can be activated as appropriate based on procedures established within the plan

Customers Served: Statewide, both public and private

Triggering Event or Circumstance-How does this program relate to drought? Impacts first identified locally and legitimized by local declaration of emergency/disaster.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: Volunteer organizations active in disasters may be able to help individuals on a case-by-case basis.

Program Limitations: Major limitations will be financial resources.

Contact Name and Phone Number: Douglas C. Friez, State Director ND Emergency Management
(701) 328-8100

Ohio State Drought Programs

Program Title: Ohio Drought Response Plan

Function: Response, Planning

Program Assistance or Functional Assistance: The purpose of this plan is to set forth administrative requirements necessary for the State and political subdivisions to participate in the Grant-In-Aid Programs for the Federal Emergency Management Agency (FEMA). The Ohio Emergency Management Agency is designated as the state agency responsible to plan, organize and maintain emergency management adequate to the needs of the state. This Ohio Administrative Plan supersedes previous versions and all previous Disaster Service Agency memoranda.

Statute or Authority: 44 Code of Federal Regulations (CFR), Part 302 and CFR Part 13

Agencies (primary agency listed first): Ohio Dept. of Natural Resources, Ohio Environmental Protection Agency, Ohio Dept. of Ag. and the Public Commission of Ohio

Customers Served: Entire state (rural and urban), farmers and ranchers

Triggering Event or Circumstance-How does this program relate to drought? Declaration of drought by the Governor

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: James R. Williams, Executive Director
(614) 889-7150

Oklahoma State Drought Programs

Program Title: N/A

Function: Response

Program Assistance or Functional Assistance: When water supplies are insufficient to meet human and livestock needs, the affected parties may request assistance from the local emergency management organization. Local governments, should then initiate and conduct emergency water supply operations to the full extent of their capabilities. Where local resources are insufficient to cope with the situation, additional emergency water supply assistance may be obtained from the state. If both state and local resources are inadequate to cope with the emergency, the Governor will request additional assistance from the federal government.

Statute or Authority: Oklahoma statute 63

Agencies (primary agency listed first): Local governments

Customers Served: Local/county residents

Triggering Event or Circumstance-How does this program relate to drought? Water supply shortage

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: Limited availability of state water transportation and distribution equipment

Contact Name and Phone Number: Brian R. Vance, Hydrologist
(405) 530-8866

Oklahoma State Drought Programs

Program Title: N/A

Function: Response

Program Assistance or Functional Assistance: The Oklahoma Department of Agriculture works closely with the state's agricultural community in assessing and responding to associated drought impacts, including those involving forestry and wildfire problems. The agency may also assist the Oklahoma State University Agricultural Extension Service in providing estimates of the impact of the drought

upon agriculture. The department's agricultural statistics service provides valuable regular data, particularly concerning the effects of drought upon Oklahoma's farming and ranching industries. DOA also provides estimates of the impact of the drought on state forest lands.

Statute or Authority: No data

Agencies (primary agency listed first): Oklahoma Dept. of Agriculture

Customers Served: Farmers, ranchers

Triggering Event or Circumstance-How does this program relate to drought? No data

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Brian R. Vance, Hydrologist
(405) 530-8866

Oklahoma State Drought Programs

Program Title: Department of Central Services

Function: Response

Program Assistance or Functional Assistance: During emergencies, including severe drought episodes, the state's Department of Central Services can authorize state agencies to make purchases without following competitive bidding procedures. The agency may also purchase emergency supplies or equipment on behalf of state agencies and provide information on emergency water supply equipment available through the private sector.

Statute or Authority: No data

Agencies (primary agency listed first): No data

Customers Served: General public

Triggering Event or Circumstance-How does this program relate to drought? Natural disaster emergencies

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Brian R. Vance, Hydrologist
(405) 530-8866

Oregon State Drought Programs

Program Title: Emergency Drought Permits

Function: Mitigation

Program Assistance or Functional Assistance: Provides means to fast-track emergency use permits, transfers and establishment of priority of water use for human consumption.

Statute or Authority: ORS 536.720-- ORS 536.780

Agencies (primary agency listed first): Oregon Water Resources Department; Oregon Dept. of Fish and Wildlife

Customers Served: Agriculture and municipal suppliers

Triggering Event or Circumstance-How does this program relate to drought? State declaration of drought

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No funding is made available so diversion from new sources, such as groundwater, is at applicant's expense.

Contact Name and Phone Number: Barry Norris
(503) 378-8455 ext. 246

Oregon State Drought Programs

Program Title: Drought Council

Function: Mitigation, Communication

Program Assistance or Functional Assistance: Coordination of drought emergency between state and local government and the public

Statute or Authority: No data

Agencies (primary agency listed first): Oregon Emergency Management; Oregon Water Resources Dept.; Oregon Dept. of Agriculture, other state agencies and public organizations

Customers Served: Agriculture, municipal suppliers and all other water interests

Triggering Event or Circumstance-How does this program relate to drought? Recognized below-average water year

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: n/a

Contact Name and Phone Number: Dave Cassel
(503) 378-2911 ext. 226

Pennsylvania State Drought Programs

Program Title: Drought Monitoring Task Force (ad hoc)

Function: Mitigation, Response, Monitoring and Prediction, Communication

Program Assistance or Functional Assistance: Monitors drought conditions and informs state officials and the public. Three levels of drought: watch, warning, emergency. In PA, water restrictions are in state regulations and therefore do not require an executive order.

Statute or Authority: Executive Branch

Agencies (primary agency listed first): PA Department of Environmental Protection, Emergency Management, Dept. of Agriculture

Customers Served: State agencies, localities, industries, general public

Triggering Event or Circumstance-How does this program relate to drought? Monitor water availability monthly

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Bill Gast, PA Dept. of Environmental Protection
(717) 772-5671

Puerto Rico Drought Programs

Program Title: Emergency Declaration

Function: Response

Program Assistance or Functional Assistance: DNRE Secretary determines when an area is critically affected by water shortage and the measures to be taken, which can include: Emergency Declaration (by the Governor), Special consideration measures, Determination of water consumption priority, Ordering a stay in the issuance of water extraction permits, Conditioning an authorized extraction activity.

Statute or Authority: Law Number 136, June 3, 1976, known as Water Resources Act

Agencies (primary agency listed first): Puerto Rico Department of Natural Resources and Environment (DNRE)

Customers Served: Applies to the whole island (administrative orders issued due to an emergency declaration can be directed to the general population or limited to a permit holder).

Triggering Event or Circumstance-How does this program relate to drought? A geographic area or the whole island is critically affected due to water shortage, which can be caused by a drought. The emergency declaration is needed in order to implement water use or extraction limitations (such as rationing).

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Shirley Vokac, DNRE, Legal Division (787) 724-8774

Puerto Rico Drought Programs

Program Title: Southwest Irrigation District

Function: Mitigation

Program Assistance or Functional Assistance: The irrigation system is already established, and therefore can provide water only to properties in the specific geographical area.

Statute or Authority: Law Number 65, June 10, 1953, known as Southwest Irrigation District Act

Agencies (primary agency listed first): Puerto Rico Electric Power Authority (PREPA), Puerto Rico Department of Agriculture

Customers Served: 3,000 acre-feet (1 acre-foot = 326,000 gallons of water)

Triggering Event or Circumstance-How does this program relate to drought? Need to irrigate a property or obtain water for commercial, industrial or domestic uses in the district.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: The irrigation system is already established, thus can provide water only to properties in the specific geographical area.

Contact Name and Phone Number: Miguel Perez, PREPA, Irrigation Division (787) 289-3244

Puerto Rico Drought Programs

Program Title: South Coast Irrigation District

Function: Mitigation

Program Assistance or Functional Assistance: The irrigation system is already established, and therefore can provide water only to properties in the specific geographical area.

Statute or Authority: No data

Agencies (primary agency listed first): Puerto Rico Electric Power Authority, Puerto Rico Department of Agriculture

Customers Served: 2,400 acre-feet (1 acre-foot = 326,000 gallons of water)

Triggering Event or Circumstance-How does this program relate to drought? Need to irrigate a property or obtain water for commercial, industrial or domestic uses in the district.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: The irrigation system is already established, thus can provide water only to properties in the specific geographical area.

Contact Name and Phone Number: Miguel Perez, PREPA, Irrigation Division (787) 289-3244

Puerto Rico Drought Programs

Program Title: Isabela Irrigation District

Function: Mitigation

Program Assistance or Functional Assistance: The irrigation system is already established, and therefore can provide water only to properties in the specific geographic area.

Statute or Authority: Law Number 63 July 19, 1919 known as Isabela Irrigation District Act

Agencies (primary agency listed first): Puerto Rico Electric Power Authority, Puerto Rico Department of Agriculture

Customers Served: 5,000 acre-feet (1 acre-foot = 326,000 gallons of water)

Triggering Event or Circumstance-How does this program relate to drought? Need to irrigate a property or obtain water for commercial, industrial or domestic uses in the district.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: The irrigation system is already established, thus can provide water only to properties in the specific geographical area. Isabela system production is mainly used for domestic consumption.

Contact Name and Phone Number: Miguel Perez, PREPA, Irrigation Division (787) 289-3244

Puerto Rico Drought Programs

Program Title: Program for the Development of Irrigation and Draining Infrastructure on Highly Productive Agricultural Land

Function: Mitigation

Program Assistance or Functional Assistance: For farmers in need of economic assistance, program provides up to 90% of cost of irrigation water supplies or drainage construction projects such as wells, ponds, and small reservoirs. Acquisition of material and equipment for irrigation is also covered.

Statute or Authority: Joint Resolution Number 597 of December 1, 1995

Agencies (primary agency listed first): Puerto Rico Department of Agriculture, Puerto Rico Electric Power Authority, Puerto Rico Land Authority, Puerto Rico Department of Natural Resources and Environment

Customers Served: Approximately 25,000 farmers

Triggering Event or Circumstance-How does this program relate to drought? Need to improve terrain conditions in order to maximize production; program is usually used for irrigation.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: Program would benefit from water availability studies which would allow focusing on areas where the terrain improvements are most needed.

Program Limitations: Program will be in place for up to five years, or until \$125 million fund is used.

Contact Name and Phone Number: Carlos Flores, Deputy Secretary, Puerto Rico Department of Agriculture
(787) 725-6544

Puerto Rico Drought Programs

Program Title: Water Rationing Program

Function: Response

Program Assistance or Functional Assistance: Dams and reservoirs are constantly monitored. If critical levels are reached, water pressure is first reduced, but if levels don't improve, rationing starts. Rationing phases are divided into 12-hour periods, which in extreme circumstances can be extended up to 48 hours. The area affected is divided in sectors, and rationing phases of any given duration are first implemented locally, but in extreme circumstances, municipalities or island regions can be affected simultaneously.

Statute or Authority: Executive Order

Agencies (primary agency listed first): Puerto Rico Aqueduct and Sewer Authority (PRASA) -- Aguas de Puerto Rico

Customers Served: Varies

Triggering Event or Circumstance-How does this program relate to drought? Critical levels on reservoirs

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: When clients have service they try to compensate by storing water in excess of their needs.

Contact Name and Phone Number: Mayra Encarnacion, PRASA--Aguas de PR
Emergency Coordinator
(787) 756-2037

Rhode Island State Drought Programs

Program Title: Water Emergency Response Plan for RI

Function: Response, Planning

Program Assistance or Functional Assistance: Establishes a framework for response to water emergencies and outlines existing emergency response capacities and responsibilities of state, local and federal entities. It establishes parameters for involvement in water emergencies, identifies courses of action, and describes responsibilities and procedures.

Statute or Authority: No data

Agencies (primary agency listed first): RI Dept. of Environmental Management, Division of Agriculture

Customers Served: General public, farmers

Triggering Event or Circumstance-How does this program relate to drought? No data

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Kenneth Ayers, Chief, Division of Agriculture
(401) 222-2781 ext. 4500

Rhode Island State Drought Programs

Program Title: Water Supply Management Plans

Function: Response

Program Assistance or Functional Assistance: Responds to temporary or permanent loss of supplies due to natural (i.e. drought) or manmade causes, including emergency management and risk assessment. Emergency response activities vary, but typically include one or more triggers based on ground or surface water levels, rainfall, etc, and various response activities which can include water use restrictions, reduced pumping, etc.

Statute or Authority: No data

Agencies (primary agency listed first): RI Dept. of Environmental Mgmt.,
Division of Agriculture

Customers Served: General public

Triggering Event or Circumstance-How does this program relate to drought? Ground or surface water levels, rainfall, etc.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Kenneth Ayers, Chief, Division of
Agriculture
(401) 222-2781 ext. 4500

South Carolina State Drought Programs

Program Title: South Carolina Drought Response Act of 1985

Function: Communication, Monitoring and Prediction, Mitigation, Response

Program Assistance or Functional Assistance: Established procedures for monitoring, managing, and conserving SC's water resources; routinely monitor and record climatic and other data necessary for determining drought conditions. Dept. of Natural Resources chairs Drought Response Committee and, upon consultation with the committee, determines levels of drought based upon data collected, establishes drought-alert phases based upon drought levels and provides notice of each phase; coordinates and implements responses to announced drought-alert phases; promotes water conservation; offers services to mediate any dispute arising from competing demands for water. Committee members are from the 5 agencies listed in that column, plus representatives from counties, municipalities, public service districts, private water suppliers, agriculture, industry, domestic users, regional councils of government, commissions of public works; and invited participants: Office of the Governor, Department of Transportation, Energy Office, USDA-FSA, Farm Bureau, USGS, Clemson University, National Weather Service, AgFirst.

Statute or Authority: Section 49-23-10 et seq. Code of Laws of South Carolina, 1976 and Regulations, 121-1198 (3)

Agencies (primary agency listed first): Department of Natural Resources, Preparedness Division of the Office of the Adjutant General, Department of Health and Environmental Control, Department of Agriculture, Forestry Commission

Customers Served: Public, local and state governments, water systems, farmers

Triggering Event or Circumstance-How does this program relate to drought? Four phases of drought-alert are identified by a range on the Palmer Drought Index scale. The need for the declaration of drought-alert phases will be verified by other means, including but not limited to other indices; water supply and demand; streamflow data; rainfall records; agricultural and forestry conditions; and general historical climatological data.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: 1) No single point of contact for access to Federal programs. 2) Need a national drought policy. 3) Need an accurate, early warning, monitoring, and prediction system. 4) Confusion about roles of each level of government for monitoring, mitigation, and response. 5)

Need drought contingency plans at all levels of government and the private sector. 6) Better data and information on drought impacts including costs. 7) Access to financial assistance for mitigation and response. 8) Need research and development on drought mitigation measures.

Program Limitations: Legislative recommendation required for committee appointment makes filling vacancies difficult. Tied to Palmer Drought Index as primary signal. Limited mitigation measures. Resources for the State Drought Office are insufficient. State Drought Office visibility and organizational status are too low. State Drought Office needs, at a minimum, 1.5 full time employee(s).

Contact Name and Phone Number: Hope Mizzell
(803) 737-0800

South Dakota State Drought Programs

Program Title: South Dakota State Drought Recovery Operation Procedures

Function: Mitigation, Planning, Response, Communication

Program Assistance or Functional Assistance: Under the direction and activation by the Governor, a Task Force of state agency representatives is formed to monitor the drought situation and determine the need for state response actions and activation in the event of a drought. Pre-drought monitoring with the weather service is conducted by the Task Force to determine situation potential and expectations.

Statute or Authority: Chapter 33-15 South Dakota Codified Law (Emergency Management)

Agencies (primary agency listed first): Office of the Governor; Departments of Agriculture, Game, Fish & Parks, Military and Veterans' Affairs, Environment & Natural Resources; other state agencies as support

Customers Served: Local governments and citizens of South Dakota

Triggering Event or Circumstance-How does this program relate to drought? Existing drought conditions are determined by a periodic situation analysis conducted by the Task Force and presented to the Governor. Under drought conditions the Governor may activate additional response actions such as the Drought Assistance Office, reporting damage assessment, recommendations and order the termination of activities upon its conclusion.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: Support of all needs of producers and retail business not directly subsidized under available programs.

Program Limitations: Declaration of drought disaster by the Governor; Federal declaration of emergency, and monetary assistance. Availability of resources for livestock and domestic use. Economic support of farmers, ranchers, and dependent retail business. Actions of SD Legislature.

Contact Name and Phone Number: SD Division of Military and Veterans Affairs, Division of Emergency Management, Darrell Dvorak, State Coordinator NFIP
(605) 773-3239

Tennessee State Drought Programs

Program Title: State Disaster Relief Fund

Function: Mitigation, Response, Monitoring and Prediction, Communication

Program Assistance or Functional Assistance: Following declaration by the Disaster Relief Commission that a local disaster exists, disaster relief funds may be provided to the respective applicant(s). "Drought" is included within the definition of "localized disaster."

Statute or Authority: TCA 58-2-501

Agencies (primary agency listed first): Tennessee Emergency Management Agency, Disaster Relief Commission

Customers Served: Political subdivisions

Triggering Event or Circumstance-How does this program relate to drought? Declaration by the commission that a localized disaster exists; "drought" is included in the definition of "localized disaster."

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: John D. White, Director Tennessee Emergency Management Agency, Tennessee National Guard P.O.Box 41502 Houston Barracks, Nashville, TN 37204-1502

Tennessee State Drought Programs

Program Title: Civil Defense-Emergency Provisions

Function: Mitigation, Response, Monitoring and Prediction, Communication

Program Assistance or Functional Assistance: Enabling legislation for statewide civil defense and emergency preparedness; include "drought" within the definition of "disaster," authorization to make grants to political subdivisions of the state for personnel and administrative costs for local civil defense and emergency preparedness.

Statute or Authority: TCA 58-2-101 et seq.

Agencies (primary agency listed first): Department of Military, Tennessee Emergency Management Agency, political subdivisions of the state

Customers Served: Statewide

Triggering Event or Circumstance-How does this program relate to drought? State of emergency declared by the governor

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: John D. White, Director Tennessee Emergency Management Agency, Tennessee National Guard P.O.Box 41502 Houston Barracks, Nashville, TN 37204-1502

Tennessee State Drought Programs

Program Title: Enabling legislation for insurance procedures in the State of Tennessee

Function: Mitigation, Response, Monitoring and Prediction, Communication

Program Assistance or Functional Assistance: Definition, scope and scale for administration of insurance policies; includes "drought" in the category of potential property insurance claims.

Statute or Authority: 56-2-201 et seq.

Agencies (primary agency listed first): Insurance companies

Customers Served: Policy writers/holders

Triggering Event or Circumstance-How does this program relate to drought? No data

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Tennessee Dept. of Commerce and Insurance
(615) 741-2241

Tennessee State Drought Programs

Program Title: N/A

Function: Mitigation, Response, Monitoring and Prediction, Communication

Program Assistance or Functional Assistance: Authority of Governor to prohibit burning during drought situation

Statute or Authority: TCA 8-1-108

Agencies (primary agency listed first): No data

Customers Served: Statewide

Triggering Event or Circumstance-How does this program relate to drought? Drought conditions that increase the likelihood of wildfire.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Ken Arney, Tennessee Dept. of Agriculture (615) 837-5454

Tennessee State Drought Programs

Program Title: Tennessee Insurance Guaranty Association Bond Act of 1995

Function: Mitigation, Response, Monitoring and Prediction, Communication

Program Assistance or Functional Assistance: Authorizes the Tennessee Local Development Authority through the Tennessee Insurance Guaranty Association to issue bonds in the event of insurer insolvency to cover certain disaster claims including those associated with drought.

Statute or Authority: TCA 4-31-801 et seq.

Agencies (primary agency listed first): Tennessee Local Development Authority

Customers Served: Policy holders

Triggering Event or Circumstance-How does this program relate to drought? Claims against losses to drought that cannot be covered by virtue of insurer's insolvency.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: Limits on bonding capacity

Contact Name and Phone Number: Ann Butterworth, Director
(615) 741-7704

Texas State Drought Programs

Program Title: Drought Monitoring & Response Committee

Function: Communication, Monitoring and Prediction, Response, Planning

Program Assistance or Functional Assistance: Coordinates state agency response to drought liaison with federal agencies. Coordinates technical and financial assistance to drought-impacted communities. Coordinates drought response planning. Coordinates assessment and public reporting of drought monitoring and water supply conditions with state agencies. Advises the Governor on significant drought events. Coordinates drought-related issues in regional water plans with state agencies. Advises the regional water planning groups on drought-related issues in the regional water plans. Explores drought-proof water sources (reuse & desalinization); more efficient water use via monitoring public water-supply systems, conservation practices; develops conventional supplies where economically and environmentally feasible.

Statute or Authority: Established by Senate Bill 1 (SB 1) of the 75th Session of the Texas Legislature

Agencies (primary agency listed first): The committee is composed of state agencies concerned with the effects of drought and fire on the citizens of the State of Texas: Texas Forest Service, National Weather Service, Texas Dept. of Agriculture, Division of Emergency Mgmt.

Customers Served: Entire state (rural and urban), farmers and ranchers, forestry industry

Triggering Event or Circumstance-How does this program relate to drought? Drier-than-normal conditions. Water shortages associated with drought situations.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: Preparation for impacts on agricultural, industrial and residential sectors of the economy

Program Limitations: High demand for water, associated with an increasing population and a diverse industry base, makes Texas even more vulnerable to the impacts of drought in the future.

Contact Name and Phone Number: Tom Milwee, Chairman, Governor's Division of Emergency Management
(512) 424-2443, fax (512) 424-2444

Bill Breese, (512) 463-8225,
fax (512) 463-7517

Texas State Drought Programs

Program Title: Texas Agricultural Finance Authority (TAFA) Linked Deposit Program

Function: Response

Program Assistance or Functional Assistance: Allows farmers and ranchers to borrow or refinance up to \$250,000 from the program for recovery from a natural disaster. Also allows for purchase of water conservation equipment for agricultural purposes and water conservation projects.

Statute or Authority: Texas Agriculture Code 44.001-44.010

Agencies (primary agency listed first): Texas Department of Agriculture

Customers Served: Existing or emerging agricultural marketing, production and water conservation projects

Triggering Event or Circumstance-How does this program relate to drought? Application and availability of funds

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: The Linked Deposit Program is an interest buydown and not a guaranteed loan program.

Contact Name and Phone Number: Robert Kennedy, Deputy Assistant Commissioner for Finance
(512) 475-1614

Texas State Drought Programs

Program Title: Hay Hotline

Function: Communication, Response

Program Assistance or Functional Assistance: Hay Hotline (1-877-429-1998). This hotline links those in need of hay with suppliers. The Hay Hotline also handles donations of hay and transportation during drought for hay relief efforts. The Hay Hotline is at the Texas Department of Agriculture's website: www.agr.state.tx.us

Statute or Authority: All details of pricing and transportation are between buyer and seller.

Agencies (primary agency listed first): Texas Department of Agriculture

Customers Served: Livestock producers in and outside of Texas can utilize the Hay Hotline.

Triggering Event or Circumstance-How does this program relate to drought? Any natural disaster that would significantly impact Texas forage and hay production would trigger the Commissioner to reinstate the Hay Hotline.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: Establishment of a National Hay Database

Program Limitations: Fire Ant Quarantine limits distribution of hay to non-quarantine counties in Texas and other states that do not have the Fire Ant Quarantine.

Contact Name and Phone Number: Melissa Burns
(512) 463-2631

Texas State Drought Programs

Program Title: Emergency Drinking Water Contingency Plan

Function: Response, Planning

Program Assistance or Functional Assistance: Defines the organization, operational concepts, responsibilities, and procedures for providing immediate and longer-term emergency assistance to private and public entities for obtaining, transporting, and distributing potable drinking water to those in need.

Statute or Authority: SB1 (75R-1997), PL 84-99 and PL 95-51, 31 TAC Chapters 357 and 358

Agencies (primary agency listed first): Governor's Division of Emergency Management; Department of Public Safety, TWDB, TNRCC, TPWD, TDA, TAEX, TSSWCB, TDHCA, DHS, COE, AGD, TDH, GSC, RRC, TxDOT, TxVOAID

Customers Served: Private and public entities supplying potable drinking water

Triggering Event or Circumstance-How does this program relate to drought? Climactic and meteorological droughts occur in Texas that can lead to hydrological drought conditions. The advent of hydrological drought conditions of

water-supplying utilities sets off the triggering mechanism to implement the Emergency Drinking Water Contingency Plan. Requests to the State through the appropriate political jurisdiction channels will evoke the response to a hydrological drought situation.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: It is difficult to determine exactly when and if a water system will run out of water due to the variety of methods and inherent limitations due to availability and subject to interpretation.

Contact Name and Phone Number: Tom Milwee, State Coordinator (Texas)
(512) 424-2443

Texas State Drought Programs

Program Title: State of Texas Emergency Management Plan

Function: Mitigation Response, Monitoring and Prediction, Communication, Planning

Program Assistance or Functional Assistance: This plan established operational concepts and identifies tasks and responsibilities related to comprehensive emergency management in Texas.

Statute or Authority: Constitution of the State of Texas, Texas Disaster Act of 1975, Texas Government Code Annotated Ch. 418, Executive Order of the Governor relating to emergency management, respective State Agency, Department or Commission enabling legislation, Robert T. Stafford Disaster Relief and Emergency Assistance Act PL 93-288 as amended, Emergency Management and Assistance CFR 44, Title III of SARA 1986 PL 99-499 as amended, Price Anderson Act of 1957 as amended.

Agencies (primary agency listed first): Governor's Division of Emergency Management; Department of Public Safety, AGD, DIR, GLO, OAG, PUC, RRC, SAPB, SAO, CPA, TCFP, TDA, TDC, TDCJ, TDH, TDHCA, DHS, TDI, MHMR, TxDOT, TEA, TEEX, TFS, TNRCC, TPWD, TRC, TEC, TWC

Customers Served: Applicable to all emergency situations, to include drought, affecting people and/or property in Texas.

Triggering Event or Circumstance-How does this program relate to drought? Areas of Texas experiencing natural disasters, including drought, will request assistance from the State when local or routine state resources are insufficient to offset the effects of the disaster.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: Federal disaster assistance may be required when disaster-related losses exceed the abilities of individuals, political jurisdictions, and State resources to effectively and efficiently recover and return to normal operations.

Contact Name and Phone Number: Tom Milwee, State Coordinator (Texas)
(512) 424-2443

Texas State Drought Programs

Program Title: Drought Preparedness Council

Function: Mitigation, Response, Communication

Program Assistance or Functional Assistance: Defines the organization, operational concepts, responsibilities, and procedures for providing immediate and longer-term emergency assistance to private and public entities for obtaining, transporting, and distributing potable drinking water to those in need.

Statute or Authority: HB 2660 (76R-1999)

Agencies (primary agency listed first): Governor's Division of Emergency Management - Department of Public Safety, TAEX, TDA, TDED, TDH, TDHCA, TFS, TNRCC, TPWD, TSSWCB, TWDB, TxDOT, NWS, USFS, USGS, HUD, USPHS, COE

Customers Served: Advises the Governor and Legislature of Texas regarding significant drought conditions in the State.

Triggering Event or Circumstance-How does this program relate to drought? Conducts drought response planning and modifies the State Drought Plan to ensure effective coordination among state, local, & federal agencies. Assesses and reports on type of drought, water usage statistics, and demand forecasts. Advises regional water planning groups on drought-related issues & communication links for emergency conditions. Coordinates technical & financial assistance & outreach for drought contingency planning to drought-impacted communities. Assesses & reports on potential impacts of water shortages on public health, safety, and welfare, and on impacts on agricultural and other natural resources.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: The council serves as a means of disseminating information and coordinating committee member responses as it relates to their agency's area of expertise. Moreover, each agency uses their field personnel to assist local officials.

Contact Name and Phone Number: Tom Milwee, State Coordinator (Texas)
(512) 424-2443

Texas State Drought Programs

Program Title: Fire Prevention and Suppression

Function: Mitigation, Response, Monitoring and Prediction, Communication

Program Assistance or Functional Assistance: Prevention and suppression of wildland fires

Statute or Authority: Section 88.102 through 88.120 Education Code

Agencies (primary agency listed first): Texas Forest Service

Customers Served: Landowners and the general public

Triggering Event or Circumstance-How does this program relate to drought? TFS uses the Keetch-Byram Drought Index (KBDI) to determine the probable severity of the risk for fire in the state. This, coupled with fire incidence, triggers TFS response by deployment of prevention teams and suppression forces to support local fire departments.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: Due to the long-term commitment of resources and the cost for deployment of aerial resources, federal financial involvement is usually necessary. Additionally, the sheer size of the state presents enormous logistical problems in supporting fire fighting.

Contact Name and Phone Number: Bobby R. Young
(409) 639-8105

Texas State Drought Programs

Program Title: SAFE (Sports Athletic Field Education)

Function: Mitigation, Communication

Program Assistance or Functional Assistance: Established 26 demonstrations of proper irrigation of athletic fields with school districts. These pilot projects demonstrate how to grow quality turf with a minimum of irrigation water.

Statute or Authority:

Agencies (primary agency listed first): Texas Agricultural Extension Service, 26 school districts

Customers Served: Public school systems

Triggering Event or Circumstance-How does this program relate to drought? Public concern for adequate water supplies

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: Staffing and funds; limited funding contribution of participating entities

Contact Name and Phone Number: Dr. Gene Taylor, Extension Turf Specialist (409) 845-4826

Texas State Drought Programs

Program Title: PET (Potential evapotranspiration) Networks

Function: Mitigation, Communication

Program Assistance or Functional Assistance: Three computer-accessible networks have been created for the Southern High Plains (19 stations), North High Plains (3 stations) and the Texas ET. These weather stations are linked to crop models to give accurate estimates of irrigation needs to irrigators of agricultural crops and turf, enhancing water use efficiency on irrigated lands.

Statute or Authority: None

Agencies (primary agency listed first): Texas Agricultural Extension Service, TAES, TGWD, USDA-ARS

Customers Served: Farmers, homeowners, growers and users of recreational/sports turf

Triggering Event or Circumstance-How does this program relate to drought? Public concern for water shortage

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: Continuation of networks requires more equipment, technicians, operating funds.

Contact Name and Phone Number: Dr. Guy Fipps, Extension Agricultural Engineer
(409) 845-7454

Texas State Drought Programs

Program Title: Water Medic (Making Every Drop Count)

Function: Mitigation, Communication

Program Assistance or Functional Assistance: Pilot water conservation program for homeowners in San Antonio, Corpus Christi, Ft. Stockton, and West Texas

Statute or Authority: None

Agencies (primary agency listed first): Texas Agricultural Extension Service, and municipalities

Customers Served: General public, homeowners

Triggering Event or Circumstance-How does this program relate to drought? Public concern about water shortage

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: Staff and funding

Contact Name and Phone Number: Dr. Doug Welsh, Extension Horticulturist
(409) 845-7341

Texas State Drought Programs

Program Title: Fisheries Division

Function: Mitigation, Response, Monitoring and Prediction

Program Assistance or Functional Assistance: The Texas Parks and Wildlife Department is the state agency responsible for protection of fish and wildlife

resources in Texas. The Fisheries Divisions (Coastal and Inland) have long-term surveys in place to monitor population trends for major species in Texas. TPWD biologists are available to lend technical assistance with fisheries management issues. TPWD also has expertise with the management of nuisance aquatic vegetation.

Statute or Authority: Texas Parks and Wildlife Code Chapter 12

Agencies (primary agency listed first): Texas Parks and Wildlife Department

Customers Served: Fish and wildlife resources of Texas and the general public of Texas

Triggering Event or Circumstance-How does this program relate to drought? TPWD has been called upon to assist local governments with the management and removal of nuisance aquatic vegetation species hydrilla and water hyacinth during drought conditions. Infestations of these plants became so thick that water delivery systems were compromised and water was lost due to increased evapotranspiration.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: Limited resources in terms of limited number of practical measures that can be taken to mitigate adverse drought impacts to wildlife.

Contact Name and Phone Number: Cindy Loeffler
(512) 912-7015

Texas State Drought Programs

Program Title: Wildlife Division

Function: Mitigation, Response, Monitoring and Prediction

Program Assistance or Functional Assistance: The Texas Parks and Wildlife Department is the state agency responsible for protection of fish and wildlife resources in Texas. The Wildlife Division has long-term surveys in place to monitor population trends for major species in Texas. Based on effects of previous droughts and the timing and severity of a current drought, TPWD biologists can predict what changes in wildlife populations might be expected at specific seasons of other years. Individual land managers can prepare for and mitigate the effects of drought on wildlife by installing wildlife watering systems, managing for habitat essential to wildlife, keeping deer and livestock numbers within the carrying capacity of the land, and reducing livestock numbers quickly during a drought so that the native habitat will continue to support wildlife.

Statute or Authority: Texas Parks and Wildlife Code Chapter 12

Agencies (primary agency listed first): Texas Parks and Wildlife Department

Customers Served: Fish and wildlife resources of Texas and the general public of Texas

Triggering Event or Circumstance-How does this program relate to drought? Native wildlife species in Texas have adapted over time to a wide range of weather conditions, including severe drought. Although a severe drought may greatly reduce the number and kinds of wildlife using a specific tract of land, wildlife populations usually return to normal within 1-3 years of normal rainfall. Occasionally, TPWD biologists must restock an area with antelope (or other species) following a severe drought, but this is fairly unusual.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Cindy Loeffler
(512) 912-7015

Texas State Drought Programs

Program Title: Resource Protection Division

Function: Mitigation, Response, Monitoring and Prediction

Program Assistance or Functional Assistance: The Texas Parks and Wildlife Department is the state agency responsible for protection of fish and wildlife resources in Texas. The Resource Protection Division is charged with investigating fish kills, taking necessary action to identify the cause and party responsible for the fish kill, and estimating the monetary value of lost resources. TPWD is also responsible for providing recommendations to the Texas Water Development Board on scheduling of instream flows and freshwater inflows to Texas estuaries for the management of fish and wildlife resources.

Statute or Authority: Texas Parks and Wildlife Code Chapter 12

Agencies (primary agency listed first): Texas Parks and Wildlife Department, Texas Water Development Board

Customers Served: Fish and wildlife resources of Texas and the general public of Texas

Triggering Event or Circumstance-How does this program relate to drought? Aquatic ecosystems experience stress during droughts. Fish kills related to high water temperatures and/or low dissolved oxygen occur more frequently during droughts. It is possible to mitigate some of these losses by scheduling instream flows and freshwater inflows to estuaries.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: Most surface water in the state of Texas has been appropriated, leaving limited alternatives for mitigating drought conditions that adversely affect fish and wildlife resources.

Contact Name and Phone Number: Cindy Loeffler
(512) 912-7015

Texas State Drought Programs

Program Title: Communications Division, News and Information Branch

Function: Communication

Program Assistance or Functional Assistance: In times of extreme drought, communicates news of drought impacts on wildlife, fish and habitat, including agency responses and options for addressing such impacts. On a year-round basis, attempts to regularly communicate the importance of clean, abundant water supply for wildlife and environmental needs, including the potential impact of water development projects, the need for freshwater inflows from rivers into bays and estuaries, pollutant contamination of water resources, and other issues that affect wildlife. Two basic strategies are employed: (1) communicate via TPWD-controlled outlets such as the TPWD web site, TPWD Video News Release program, etc. and (2) communicate via news releases and other activities that seek to stimulate news media coverage of drought or water-related issues.

Statute or Authority: No data

Agencies (primary agency listed first): Texas Parks and Wildlife Department

Customers Served: Texas general public, TPWD constituents, including hunters, anglers, birders, paddlers, hikers, park visitors, etc. and conservation organizations to which they belong.

Triggering Event or Circumstance-How does this program relate to drought? News stories are issued as needed. While the branch services all

TPWD divisions and the full range of issues facing TPWD, it can act quickly and specifically to address drought-related items as needed.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: Limited resources in terms of both labor/human resources and equipment/technology.

Contact Name and Phone Number: Tom Harvey
(512) 389-4453

Texas State Drought Programs

Program Title: Division of Emergency Preparedness Health and Medical Response Plan for Heat and Drought Emergencies

Function: Mitigation, Response, Monitoring and Prediction, Communication, Planning

Program Assistance or Functional Assistance: Provides operational and planning guidelines, procedures and instructions for an integrated, multi-agency response to severe weather conditions, specifically heat and drought, that endanger the citizens of Texas. Outlines methods of assisting local jurisdiction in efforts to mitigate the effects of heat and drought and authorizes agency response to requests for assistance to alleviate impacts on citizens.

Statute or Authority: No data

Agencies (primary agency listed first): Texas Dept. of Health (TDH), TX Animal Health Comm., TX Dept. of Aging, Public Utility Comm., TX Rehab. Comm., TX Dept. of Human Services, TX Dept. of Mental Health and Mental Retardation, TX Dept. of Housing and Community Affairs, Office of the Governor, TX Division of Emergency Mgmt., TX Natural Resources Conservation Comm., TX Education Agency

Customers Served: General public and at-risk populations

Triggering Event or Circumstance-How does this program relate to drought? Activated in phases in accordance with the plan

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: Limited staff and budget

Contact Name and Phone Number: Sam Wilson
(512)834-6728

Texas State Drought Programs

Program Title: Texas Community Development Program Disaster Relief Fund

Function: Mitigation, Response

Program Assistance or Functional Assistance: Coordinates technical and financial assistance and outreach for drought contingency planning to drought-impacted areas.

Statute or Authority: 10 TAC Chapter 9

Agencies (primary agency listed first): Texas Department of Housing & Community Affairs, TWDB, TNRCC, TSSWCB, TPWD, DEM, TAEX, TxDOT, TDA

Customers Served: Cities under 50,000 population

Triggering Event or Circumstance-How does this program relate to drought? Following a drought declaration by the Governor, the Disaster Relief Funds can be utilized to assist small cities and counties to obtain a permanent source of water for its residents. This can include drilling a well(s), extending water lines to connect to surface water or to another water source, engineering and construction costs.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: Must be part of a Governor's Declaration. Applicant must be a city or county, limited to cities with population under 50,000. Ceiling of \$350,000 attached to the funds.

Contact Name and Phone Number: Gus Garcia
(512) 475-3817

Texas State Drought Programs

Program Title: Soil and Water Conservation

Function: Mitigation, Response, Communication, Planning

Program Assistance or Functional Assistance: Program provides technical assistance through local soil and water conservation districts to assist agricultural

land users to develop plans for soil and water conservation. These plans include practices for mitigation and response to drought. Plans for grazed land include drought contingency measures for reducing or removing cattle. Plans for irrigated land include on-farm water management measures that improve efficiencies and mitigate drought impacts.

Statute or Authority: Agricultural Code of Texas, Chapter 201

Agencies (primary agency listed first): Texas State Soil and Water Conservation Board, local soil and water conservation districts, USDA, NRCS

Customers Served: Individual agricultural producers in Texas

Triggering Event or Circumstance-How does this program relate to drought? District assistance is provided based on the individual request for assistance. It is not directly related to drought but is an action that can have mitigating impact.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: Local soil and water conservation districts in Texas have limited resources with which to meet the technical assistance needs of their cooperating landowners. The availability of assistance through USDA-Natural Resources Conservation Service has dramatically decreased over the last several years with the decline anticipated to continue into the future.

Contact Name and Phone Number: James M. Moore
(254) 773-2250

Texas State Drought Programs

Program Title: Drought Contingency Planning in Texas

Function: Mitigation, Response, Communication, Planning

Program Assistance or Functional Assistance: To assist local and regional utilities in preparing their required drought contingency plans, the TNRCC and the Texas Water Development Board in 1999 jointly conducted a series of technical assistance workshops around the state. The workshops provided to each person attending the TNRCC's Handbook for Drought Contingency Planning that includes a model drought plan. A utility which chooses to use the fill-in-the-blanks model will comply with the minimum content requirements of the TNRCC rules for drought contingency plans. However, the workshop presentation stressed the importance of a city council or board tailoring the model to fit its water supply conditions, its customer base, and its water

treatment, storage and distribution system. This is particularly important with regard to the utility's selection of triggers for successive drought response stages, and the selection of demand reduction measures which the council or board will be willing to implement when necessary.

Statute or Authority: SB 1301 and HB 2660 (76R-1999)

Agencies (primary agency listed first): Texas Natural Resource Conservation Committee (TNRCC), Texas Water Development Board (TWDB)

Customers Served: Regional Water Planning Group (RWPG)

Triggering Event or Circumstance-How does this program relate to drought? The TNRCC is also implementing state legislation which requires that, when a drought-related disaster is declared in a county, the county notify water suppliers and major water users in the county and also the chairperson of the regional water planning group that includes the county. Upon receipt of such notification, water suppliers and major water users must implement their drought contingency plans and water conservation plans. To assist the counties in this task, the TNRCC in August 1999 provided to each county's Emergency Management Coordinator a list of all retail and wholesale water suppliers and major water-right holders in that county.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: The means of notification by each RWGP to the Emergency Management Coordinator or local official is not clearly defined by the legislation.

Contact Name and Phone Number: John Warden
(512) 239-6967

Texas State Drought Programs

Program Title: Crop Yield Estimator

Function: Mitigation, Monitoring and Prediction, Communication

Program Assistance or Functional Assistance: A computer model has been developed and is being refined to predict potential crop yields given soil series, crop planting variables, weather to date and predicted weather.

Statute or Authority: No data

Agencies (primary agency listed first): Texas Agricultural Experiment Station (TAES) USDA-ARS

Customers Served: Farmers and ranchers

Triggering Event or Circumstance-How does this program relate to drought? Farmers or ranchers can withhold or add production inputs based upon by yield projections from current and projected weather, reducing the economic impact of drought, and minimizing risk.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: Model is incomplete and needs more field testing.

Contact Name and Phone Number: Dr. Bill Dugas, Texas Ag. Experiment Station, Temple, TX
(254) 770-6600

Texas State Drought Programs

Program Title: Water for Texans

Function: Response, Communication

Program Assistance or Functional Assistance: Programs designed as rangeland best management practices by providing assistance to rangeland managers on brush and grazing management and their effects on water conservation and quality.

Statute or Authority: SB 1 [1997] (75 R), Federal Clean Water Act

Agencies (primary agency listed first): TAES, NRCS, EPA, TPWD, TSSWCB

Customers Served: Ranchers, landowners

Triggering Event or Circumstance-How does this program relate to drought? Promotes improved utilization of precipitation and greater recharge of surface and groundwater through brush control and management of rangeland.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: Public outreach limitations due to funding constraints

Contact Name and Phone Number: Dr. Larry White, Extension Range Specialist
(409) 845-2755

Texas State Drought Programs

Program Title: Drought Communication to Public

Function: Mitigation, Response, Monitoring and Prediction, Communication

Program Assistance or Functional Assistance: Provides information to the general public through print and electronic media.

Statute or Authority: None

Agencies (primary agency listed first): TAEX, TAES

Customers Served: General public, public decision-makers and the media

Triggering Event or Circumstance-How does this program relate to drought? Delivers a variety of news releases to mass media across the state and nation to make the public and legislative leaders aware of water conservation requirements and economic consequences of drought.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: Communications media limitations; end product use cannot be controlled.

Contact Name and Phone Number: Edith Chenault, Extension Communications Specialist
(409) 845-2866

Texas State Drought Programs

Program Title: Wastewater Treatment and Reuse

Function: Mitigation, Response, Monitoring and Prediction, Communication

Program Assistance or Functional Assistance: Provides functional demonstrations and educational materials about available technologies for wastewater reuse and management.

Statute or Authority: 30 TAC Chapter(s) 210, 285 and 317

Agencies (primary agency listed first): TAES, TNRCC, TSSWCB, USDA-NRCS, Texas on-site wastewater assoc.

Customers Served: Homeowners, wastewater professionals, regulators, decision-makers

Triggering Event or Circumstance-How does this program relate to drought? Programming efforts designed to educate the aforementioned audience about wastewater reuse through reclaimed water systems, graywater systems, and innovative/alternative septic systems.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: Does not allow for small scale systems, I.e., subdivisions. Also, graywater rules not finalized.

Contact Name and Phone Number: Dr. Bruce Lesikar, Extension Agricultural Engineer
(409) 845-7451

Texas State Drought Programs

Program Title: Priority Groundwater Management Areas (PGMA)

Function: Mitigation, Response

Program Assistance or Functional Assistance: Provides educational programming to residents in PGMA's on water supply, demand and management issues.

Statute or Authority: SB 1 [1997] (75 R)

Agencies (primary agency listed first): TNRCC, TWDB, TPWD, TAGD, USDA-NRCS

Customers Served: Homeowners and residents

Triggering Event or Circumstance-How does this program relate to drought? Educating local residents on water availability issues in order to expedite the implementation of Groundwater Conservation Districts as a primary method for groundwater management

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: Monetary constraints of groundwater districts with single entities

Contact Name and Phone Number: Dr. Guy Fipps, Extension Agricultural Engineer
409)845-7454

Texas State Drought Programs

Program Title: Master Gardener Program

Function: Mitigation, Communication

Program Assistance or Functional Assistance: Programming educates homeowners and landscape professionals on proper irrigation techniques and management for home landscape.

Statute or Authority: State guidelines and loosely defined relations between state and federal agencies

Agencies (primary agency listed first): County level organizations

Customers Served: Homeowners

Triggering Event or Circumstance-How does this program relate to drought? Promotes water conservation by utilizing efficient irrigation methods while maintaining healthy turf, landscape, and gardens.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: Public outreach limited due to technical support and operating funds availability

Contact Name and Phone Number: Dr. Doug Welsh, Extension Horticulturist
(409)845-7341

Texas State Drought Programs

Program Title: Agricultural Irrigation Programming

Function: Mitigation, Response, Monitoring and Prediction, Communication

Program Assistance or Functional Assistance: Provides education and training, demonstrations, technical assistance, and the development of decision aid tools, improved technologies, and management practices for agricultural

producers. This is accomplished through irrigation conferences, PET networks, county-based demonstration/education programs, and irrigation district programs.

Statute or Authority: Groundwater legislation 30 TAC Chapter 36, SB1 [1977] (75 R)

Agencies (primary agency listed first): RWPGs, TDA, TNRCC

Customers Served: Agricultural producers, irrigation districts

Triggering Event or Circumstance-How does this program relate to drought? Promotes efficient irrigation and water conservation while maintaining profitable agricultural production.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: Funding capacity of eligible jurisdictions

Contact Name and Phone Number: Dr. Leon New, Extension Agricultural Engineer
(806) 359-5401

Texas State Drought Programs

Program Title: Economic Impact Assessment of Drought

Function: Mitigation, Response, Monitoring and Prediction, Communication

Program Assistance or Functional Assistance: Provides timely economic estimates on the effect of drought on agriculture and related industries.

Statute or Authority: None

Agencies (primary agency listed first): TAEX, TAES, TFS, TDA, USDA-FSA

Customers Served: General public

Triggering Event or Circumstance-How does this program relate to drought? Provides agricultural producers with decision-making tools during times of drought. Includes models on cost of production, profitability or losses associated with staying in business, information on emergency loans, disaster relief, crop insurance, and drought-related income tax laws.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: Information is applicable to regional areas, but is not community specific.

Contact Name and Phone Number: Dr. Roland Smith, Extension Program Leader for Agricultural Economics
(409) 845-1751

Texas State Drought Programs

Program Title: South Texas AmeriCorps Initiative (STACI)

Function: Mitigation, Communication

Program Assistance or Functional Assistance: Coordinated effort in which volunteers work in mainly low-income communities, providing water resource management education for the border region. Includes information on gardening, water conservation, and recycling.

Statute or Authority: None

Agencies (primary agency listed first): Texas Commission of Volunteer Services

Customers Served: Homeowners

Triggering Event or Circumstance-How does this program relate to drought? Promotes residential water conservation

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: Focus is geographically specific to Texas' southern border.

Contact Name and Phone Number: Dr. Bonnie McGee, Assistant Director for Urban Programs
(409) 845-4514

Texas State Drought Programs

Program Title: Water Resource Planning and Monitoring

Function: Mitigation, Monitoring and Prediction

Program Assistance or Functional Assistance: During drought conditions, the Texas Water Development Board staff provide hands-on technical assistance to utilities and water authorities regarding implementation of drought plans, location of alternate sources of water and provision of emergency loans associated with drought response measures. The Board also provides financial assistance through grants for regional planning and for the purchase of water-conservation-related equipment for local irrigation and underground water conservation districts to use to promote agricultural conservation.

Statute or Authority: SB 1 [1997]; Texas Water Code chapters 14-17

Agencies (primary agency listed first): Texas Natural Resource Conservation Committee (TNRCC), Texas Water Development Board (TWDB), Drought Preparedness Council

Customers Served: All citizens of the state

Triggering Event or Circumstance-How does this program relate to drought? More recent droughts of the 1980's saw the implementation of water conservation and drought plan requirements before an entity could receive funding for a water or wastewater project, and the drought of 1996 was a major focusing point of Senate Bill 1.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: The program is limited both by statute and funding to working primarily with political subdivisions of the State.

Contact Name and Phone Number: Bill Hoffman, Assistant Division Director for Water Resources Planning
(512) 463-7932

Utah State Drought Programs

Program Title: Agriculture Resource Development Loan Program

Function: Response

Program Assistance or Functional Assistance: The Agriculture Resource Development Loan Program deals mainly with water conservation and soil conservation and rangeland development. Loans can be made at three percent interest with a maximum term of 12 years.

Statute or Authority: No data

Agencies (primary agency listed first): No data

Customers Served: Farmers, agriculture agencies

Triggering Event or Circumstance-How does this program relate to drought? No data

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Koy Page, Administrator, Loan Programs, Utah Department of Agriculture and Food
(801) 538-7172

Utah State Drought Programs

Program Title: State Drought Related Assistance Programs

Function: Response

Program Assistance or Functional Assistance: The Governor has authority to declare an emergency, effective for 30 days. The Governor's emergency powers include the purchase or lease of necessary materials. Food and other items are specifically mentioned, including lands, but not water. However, water rights are similar to the property interest in land, and arguably the Governor could expropriate and reallocate water. Appropriate compensation would be required and determined under eminent domain statutes.

Statute or Authority: No data

Agencies (primary agency listed first): Dept. of Public Safety , CEM

Customers Served: General public

Triggering Event or Circumstance-How does this program relate to drought? Governor's declaration of emergency

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: \$250,000 fund that can be used to respond to any type of emergency, provided the Governor issues a "State of Emergency" proclamation.

Contact Name and Phone Number: No data

Utah State Drought Programs

Program Title: Utah Emergency Act of 1981

Function: Mitigation, Response

Program Assistance or Functional Assistance: This act authorized by Comprehensive Emergency Management (CEM) to coordinate disaster mitigation, preparedness, response, and recovery covering "natural phenomenon", which specifically includes drought. Drought response therefore falls under the general State Emergency Response Plan.

Statute or Authority: No data

Agencies (primary agency listed first): Division of Comprehensive Emergency Mgmt.

Customers Served: General public

Triggering Event or Circumstance-How does this program relate to drought? Governor's declaration of emergency

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: No data

Utah State Drought Programs

Program Title: Revolving Construction Fund

Function: Response

Program Assistance or Functional Assistance: The Revolving Construction Fund was established in 1947 to provide technical and financial assistance to nonprofit irrigation companies and water companies. Board funding is provided at 0% interest. During the 1977 drought, funding was provided through this program to assist irrigation companies and individuals experiencing water shortages. This program provides the best opportunity for the state to provide assistance to irrigation companies experiencing problems during the drought.

Statute or Authority: No data

Agencies (primary agency listed first): Dept. of Natural Resources, Division of Water Resources

Customers Served: General public

Triggering Event or Circumstance-How does this program relate to drought? No data

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: No data

Utah State Drought Programs

Program Title: Cities Water Loan Fund (CWLF)

Function: Response

Program Assistance or Functional Assistance: The Cities Water Loan Fund is used to provide funding to political subdivisions of the state for upgrading and/or replacing its municipal water systems. During the 1977 drought, several communities received funding through this program to help drill wells.

Statute or Authority: No data

Agencies (primary agency listed first): Dept. of Natural Resources, Division of Water Resources

Customers Served: Residents of affected communities

Triggering Event or Circumstance-How does this program relate to drought? No data

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: No data

Utah State Drought Programs

Program Title: Conservation and Development Fund (C&D)

Function: Response

Program Assistance or Functional Assistance: The Conservation and Development Fund (C&D) was created in 1978 to help finance large water development projects beyond the funding limits of the RCF & CWLF.

Statute or Authority: No data

Agencies (primary agency listed first): Dept. of Natural Resources, Division of Water Resources

Customers Served: General public, irrigation companies

Triggering Event or Circumstance-How does this program relate to drought? No data

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: No data

Vermont State Drought Programs

Program Title: Drought Monitoring Task Force

Function: Response

Program Assistance or Functional Assistance: Monitors drought conditions and informs state officials and the public.

Statute or Authority: No data

Agencies (primary agency listed first): Vermont Emergency Management

Customers Served: State agencies, localities, industries, general public

Triggering Event or Circumstance-How does this program relate to drought? At the onset of drought

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Joan Lindsey
(802) 244-8721

Virginia State Drought Programs

Program Title: Drought Contingency Planning Technical Assistance

Function: Mitigation, Response, Planning

Program Assistance or Functional Assistance: Provides assistance to localities in preparation of Drought Contingency Plans.

Statute or Authority: 62.1-44.38 code of VA

Agencies (primary agency listed first): Dept. of Environmental Quality (DEQ)

Customers Served: Local government

Triggering Event or Circumstance-How does this program relate to drought? Written request from local government.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: Voluntary. Cannot require localities to prepare plans.

Contact Name and Phone Number: Erlinda Patron
(804) 698-4047

Virginia State Drought Programs

Program Title: Drought Monitoring Task Force

Function: Monitoring and Prediction, Communication

Program Assistance or Functional Assistance: Monitors drought conditions and informs state officials and the public

Statute or Authority: 62.1-44.36 code of VA

Agencies (primary agency listed first): DEQ, VDH, VDACS, VDES, VCES, VDOF, VDGIF, State Climatologist

Customers Served: Localities, general public

Triggering Event or Circumstance-How does this program relate to drought? At the onset of drought

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Erlinda Patron
(804) 698-4047

Virginia State Drought Programs

Program Title: Hydrologic Data Gathering

Function: Monitoring and Prediction

Program Assistance or Functional Assistance: Monitors streamflows and groundwater levels.

Statute or Authority: No data

Agencies (primary agency listed first): DEQ

Customers Served: State agencies, localities, industries, general public

Triggering Event or Circumstance-How does this program relate to drought? Streamflow is one indicator of drought; program provides flow measurements useful in assessing drought severity.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: Increased funding at federal and state level so more stations can be added.

Program Limitations: Number of gauging stations has been reduced in recent years due to lack of funding.

Contact Name and Phone Number: Paul Herman
(804) 698-4464

Virginia State Drought Programs

Program Title: Water Supply Emergency Ordinance

Function: Mitigation, Response

Program Assistance or Functional Assistance: Under certain conditions, Governor can allocate water during drought emergency.

Statute or Authority: 15.1-37.3:4 code of VA

Agencies (primary agency listed first): DEQ

Customers Served: Local government; local citizens

Triggering Event or Circumstance-How does this program relate to drought? Upon declaration of local emergency & upon request by local government.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: Can be done only if interconnections exist between jurisdictions & there is excess water in donor jurisdiction

Contact Name and Phone Number: Erlinda Patron
(804) 698-4047

Virginia State Drought Programs

Program Title: Surface Water Management Area

Function: Mitigation, Response

Program Assistance or Functional Assistance: Designates surface water management areas and requires water withdrawal permits in these areas.

Statute or Authority: 62.10-242-243, code of VA

Agencies (primary agency listed first): DEQ

Customers Served: Permit conditions take effect during drought periods.

Triggering Event or Circumstance-How does this program relate to drought? No data

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Erlinda Patron
(804) 698-4047

Virginia State Drought Programs

Program Title: Emergency Services Coordination

Function: Communication, Response

Program Assistance or Functional Assistance: Coordinate emergency resource management

Statute or Authority: 44-146.16 et seq.

Agencies (primary agency listed first): Dept. of Emergency Services

Customers Served: Local government; general public

Triggering Event or Circumstance-How does this program relate to drought? At the onset of drought

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Michael Cline
(804) 674-2420

Virginia State Drought Programs

Program Title: Drinking Water Programs

Function: Mitigation, Response

Program Assistance or Functional Assistance: Regulate public drinking water system

Statute or Authority: 32.1-167 et seq.

Agencies (primary agency listed first): Dept. of Health (VDH)

Customers Served: Water systems, general public

Triggering Event or Circumstance-How does this program relate to drought? Replacement wells affected by drought need permit from VDH.

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Bob Taylor
(804) 786-1767

Washington State Drought Programs

Program Title: Washington Drought Regulations

Function: Response, Monitoring and Prediction

Program Assistance or Functional Assistance: The legislature in 1989 gave permanent drought relief authority to the Dept. of Ecology and enabled Ecology to issue orders declaring drought emergencies. Ecology has authority under chapter 171, Laws of 1989, to issue emergency permits to withdraw public waters as an alternate source of water supply, approve water right transfers between willing parties, and provide funding assistance for eligible drought projects and measures.

Statute or Authority: Chapter 173-166 WAC

Agencies (primary agency listed first): Washington State Dept. of Ecology

Customers Served: State of Washington

Triggering Event or Circumstance-How does this program relate to drought? Declaration of drought by the Dept. of Ecology

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: No data

West Virginia State Drought Programs

Program Title: Emergency Services

Function: Mitigation, Response, Monitoring and Prediction, Communication

Program Assistance or Functional Assistance: In view of the occurrence of disaster, man-made or natural, the preparation of this State will be adequate to deal with such disasters.

Statute or Authority: West Virginia Code, Chapter 15, Article 5

Agencies (primary agency listed first): West Virginia Office of Emergency Services (WVOES)

Customers Served: The entire population of the state of West Virginia

Triggering Event or Circumstance-How does this program relate to drought? Any imminent disaster or emergency

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: If needs cannot be met by either state or federal assistance, private volunteer organizations will be utilized.

Program Limitations: None

Contact Name and Phone Number: John W. Pack, Jr., Director, WVOES
(304) 558-5380

Wisconsin State Drought Programs

Program Title: Drought Monitoring Task Force (ad hoc)

Function: Mitigation, Response, Monitoring and Prediction, Communication

Program Assistance or Functional Assistance: Monitors drought conditions and informs state officials and the public.

Statute or Authority: Executive Branch

Agencies (primary agency listed first): Wisconsin Emergency Management, Dept. of Natural Resources, Univ. of Wisconsin

Customers Served: Localities, general public

Triggering Event or Circumstance-How does this program relate to drought? At the onset of drought

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: No data

Contact Name and Phone Number: Diane Kleiboer
(608) 242-3232

Wyoming State Drought Programs

Program Title: Drought Task Force (ad hoc), Water Forum

Function: Mitigation, Response, Monitoring and Prediction, Communication

Program Assistance or Functional Assistance: The Water Forum monitors water conditions August -May and informs state officials and the public. Drought Task Force activates when advised by the Water Forum.

Statute or Authority: Executive Branch

Agencies (primary agency listed first): Wyoming Dept. of Agriculture, Emergency Management, State Engineer

Customers Served: Localities, general public

Triggering Event or Circumstance-How does this program relate to drought? Ongoing and at the onset of drought

Unmet Needs at federal, state, local and tribal levels. Includes changes from customer or "provider" perspective: No data

Program Limitations: WY has a large ranching component compared to crops; federal aid for ranchers, other than for forage crops, is basically a tax deduction.

Contact Name and Phone Number: Don Christianson, WY Dept. of Agriculture (307) 777-6576